

FIG. 1a

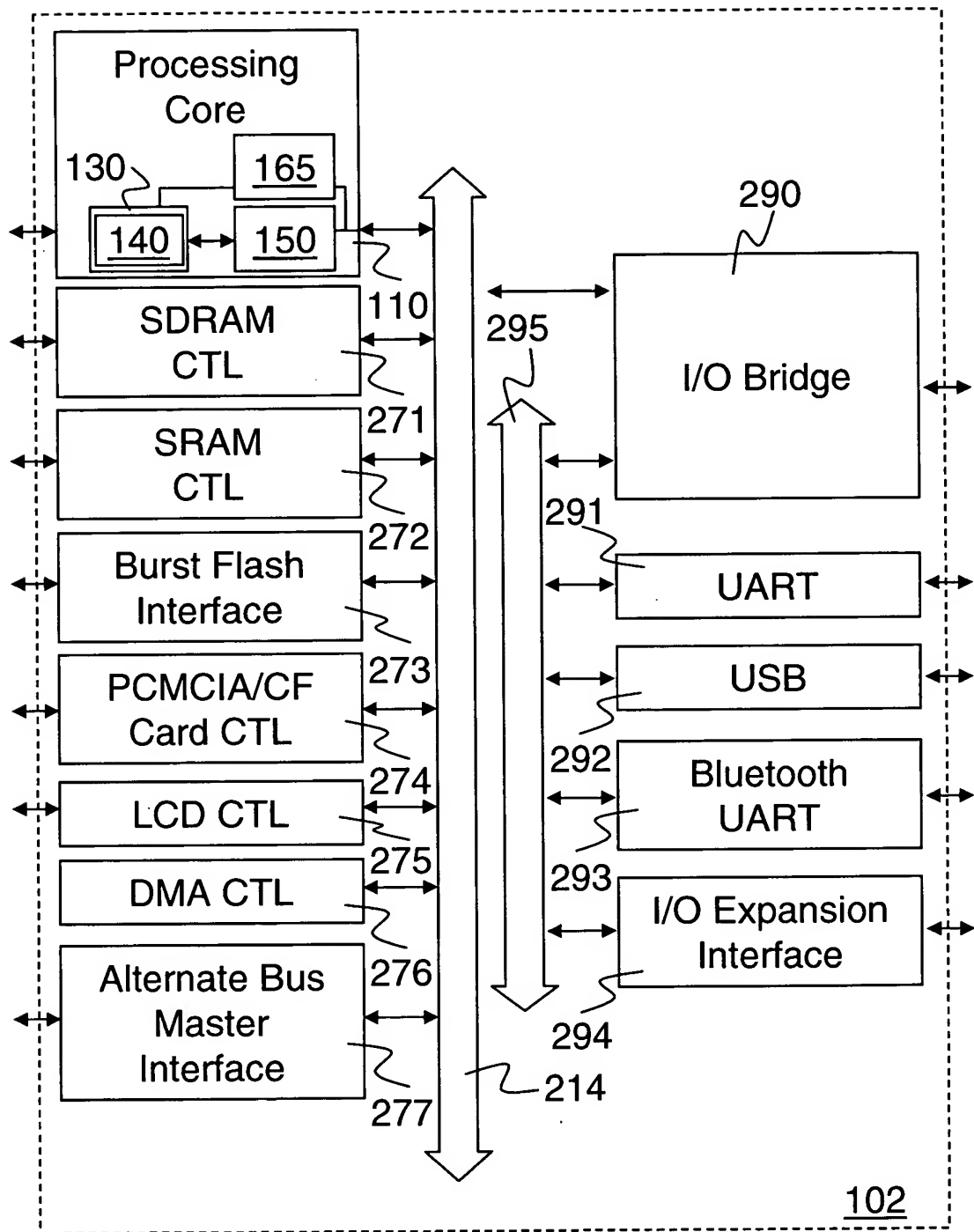


FIG. 1b

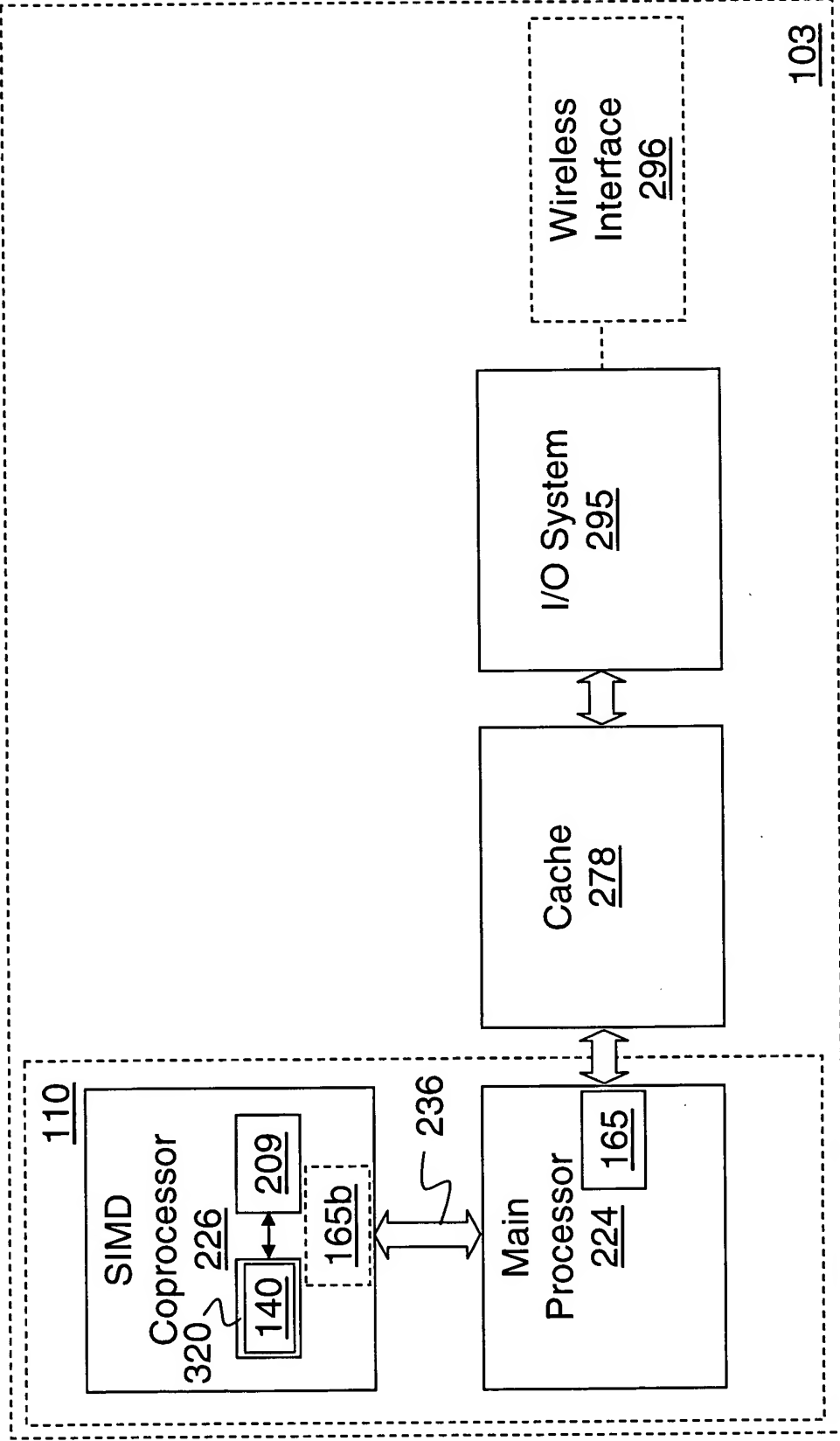


FIG. 1c

FIG. 2a

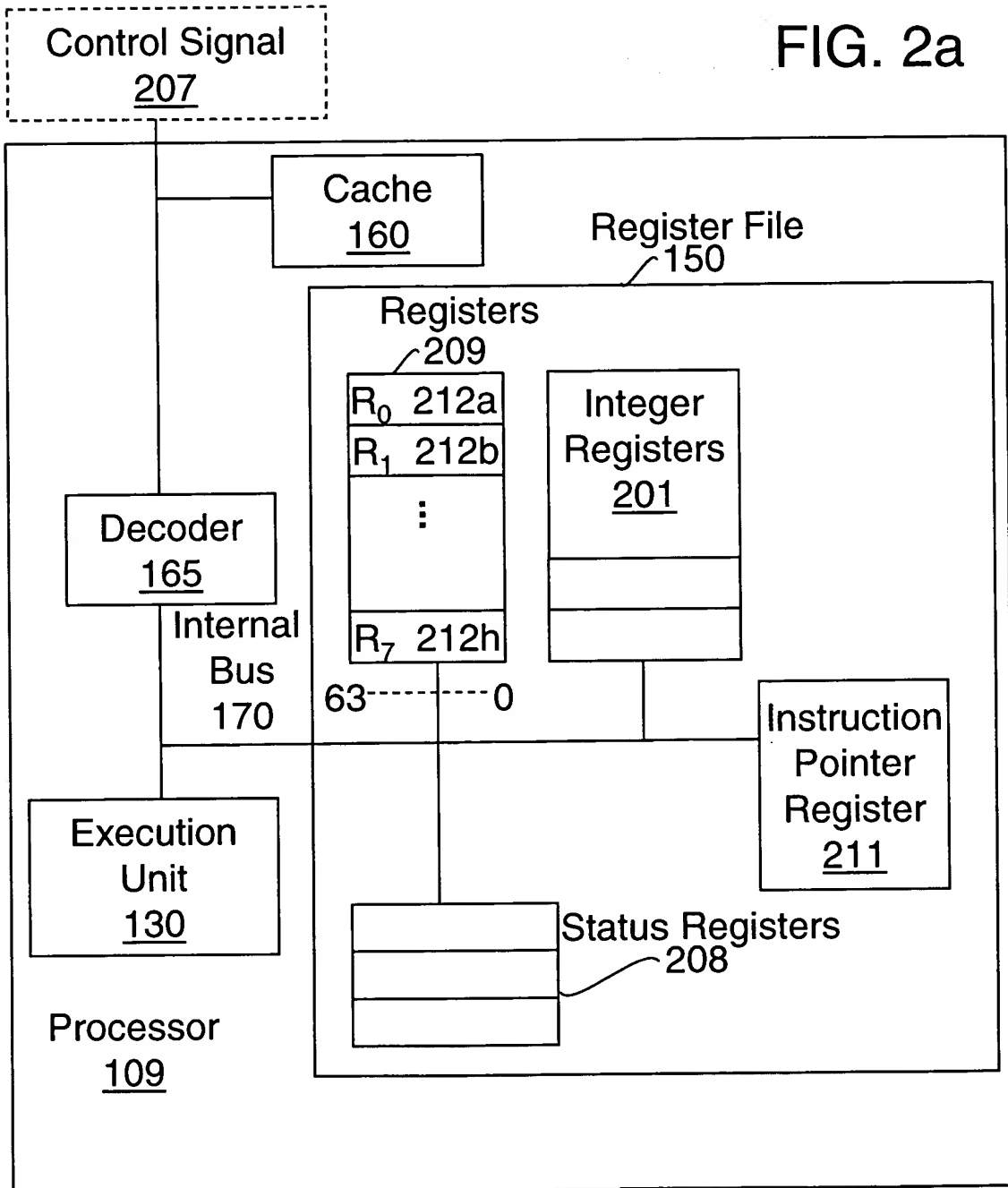


FIG. 2b

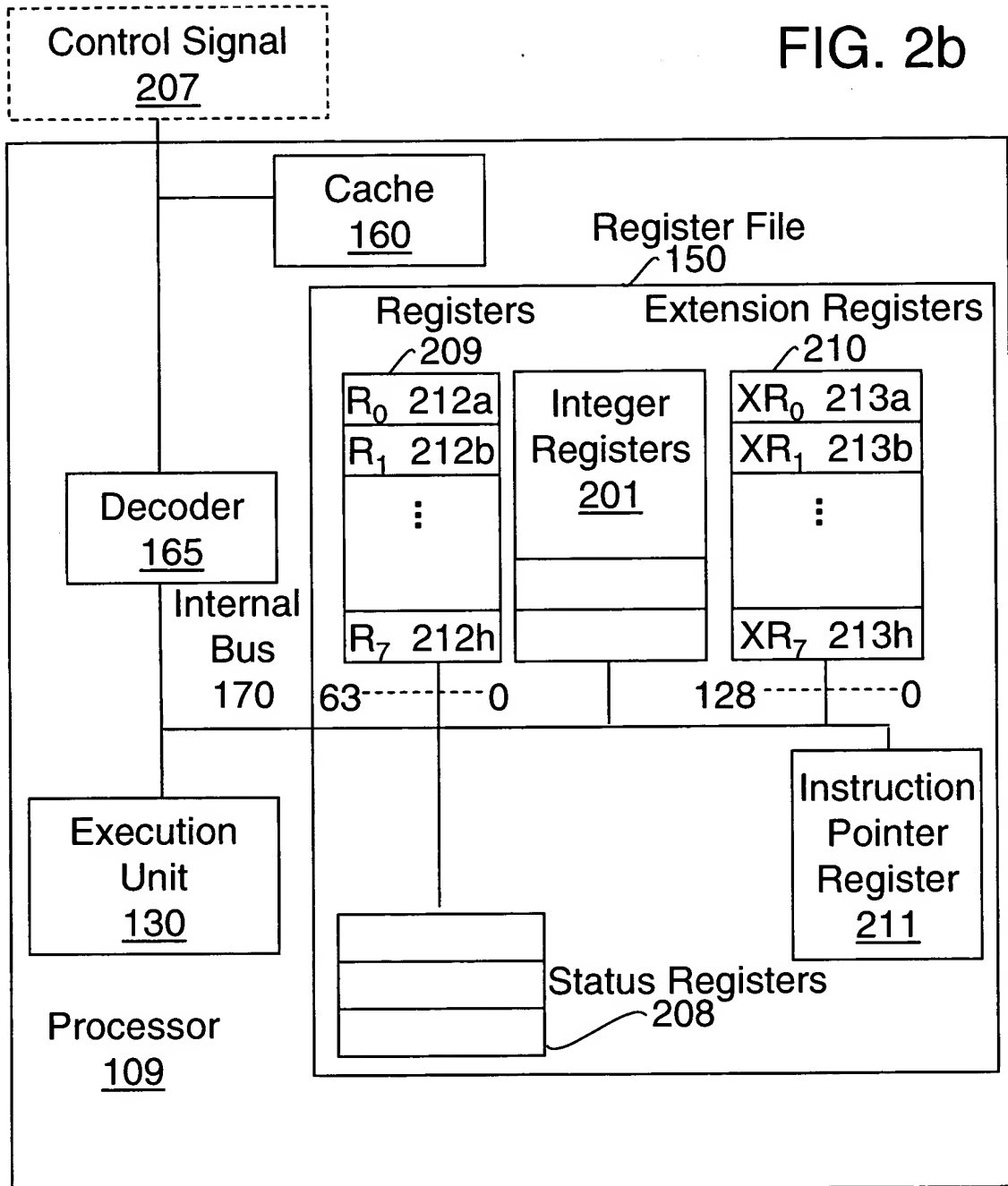
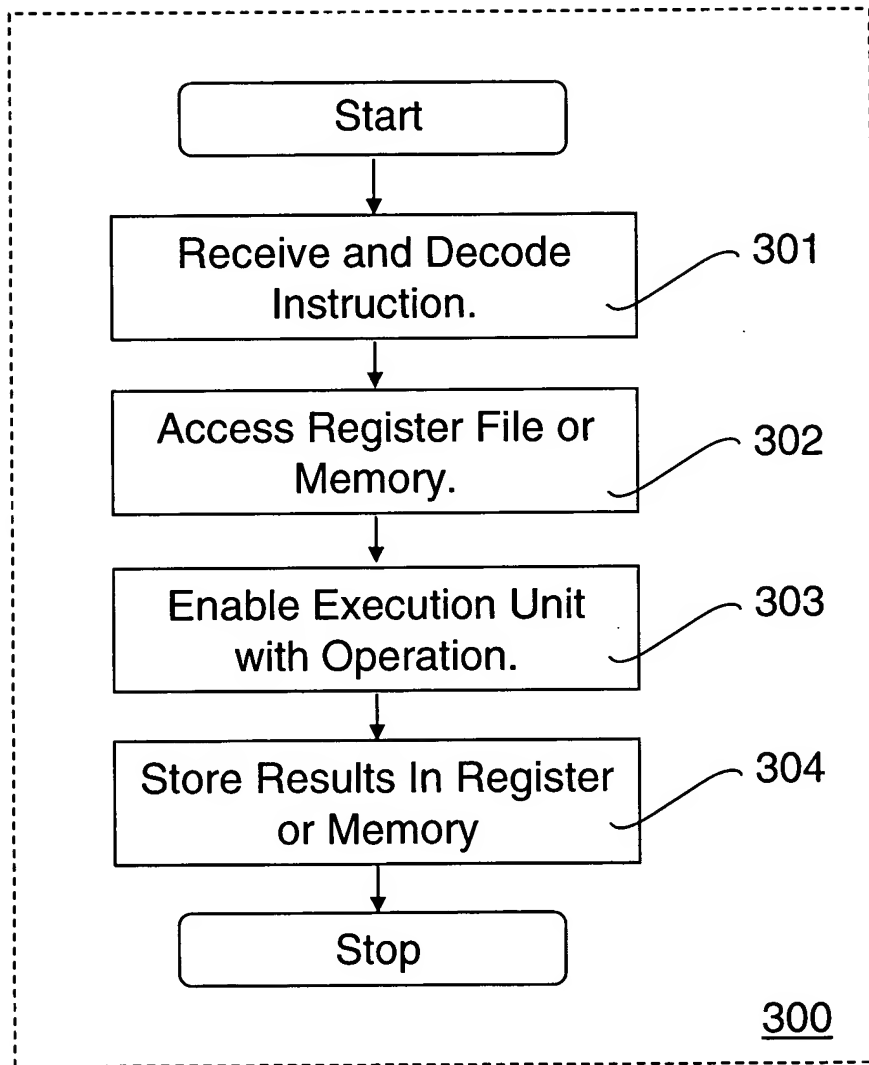


FIG. 3



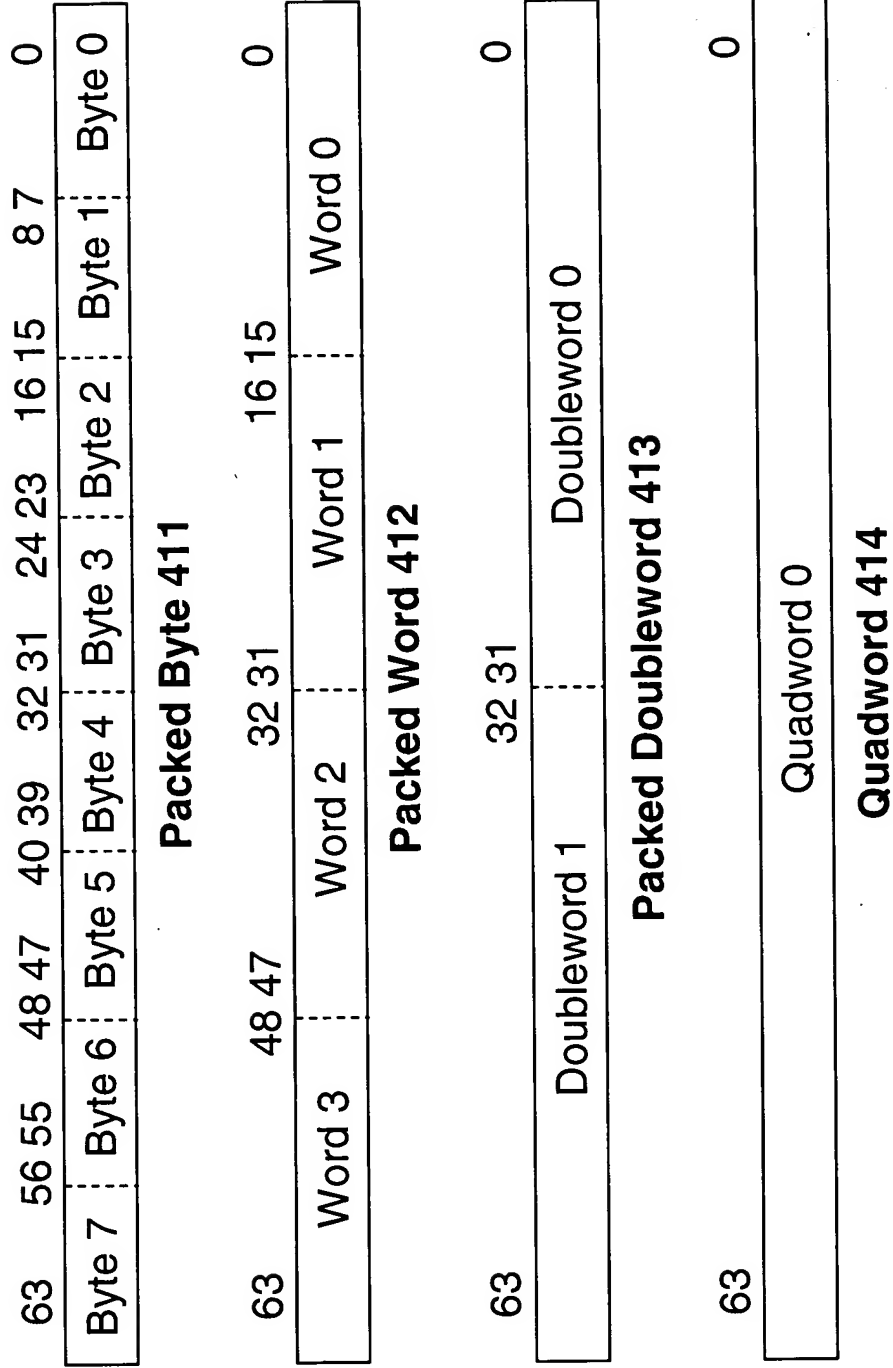


FIG. 4a

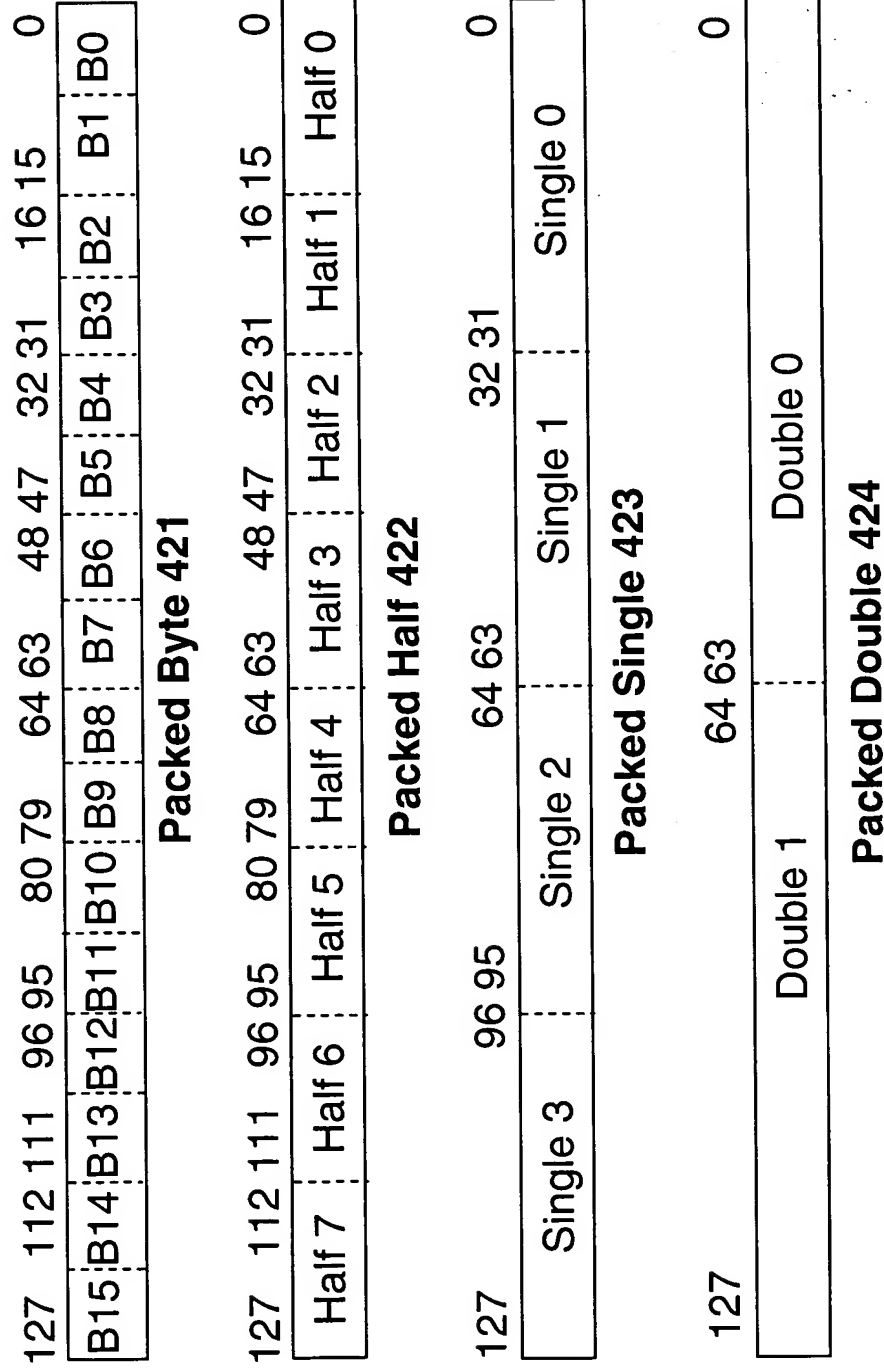


FIG. 4b

| | | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 63 | 56 55 | 48 47 | 40 39 | 32 31 | 24 23 | 16 15 | 8 7 | 0 |
| bbbb bbbb | bbbb bbbb | bbbb bbbb | bbbb bbbb | bbbb bbbb | bbbb bbbb | bbbb bbbb | bbbb bbbb | bbbb bbbb |

Unsigned packed byte in-register representation 510

| | | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 63 | 56 55 | 48 47 | 40 39 | 32 31 | 24 23 | 16 15 | 8 7 | 0 |
| sbbb bbbb | sbbb bbbb | sbbb bbbb | sbbb bbbb | sbbb bbbb | sbbb bbbb | sbbb bbbb | sbbb bbbb | sbbb bbbb |

Signed packed byte in-register representation 511

FIG. 5a

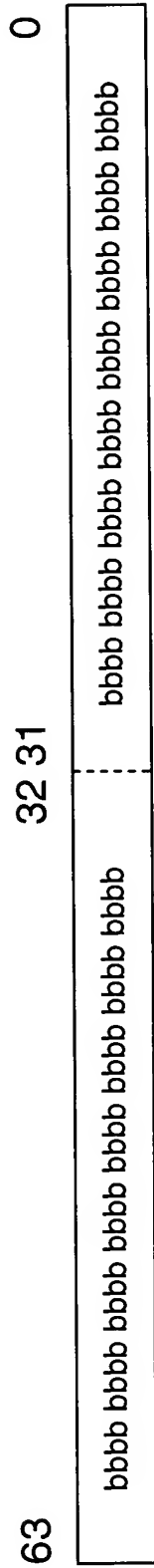
| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 63 | 48 47 | 32 31 | 16 15 | 0 |
| bbbb bbbb | bbbb bbbb | bbbb bbbb | bbbb bbbb | bbbb bbbb |

Unsigned packed word in-register representation 512

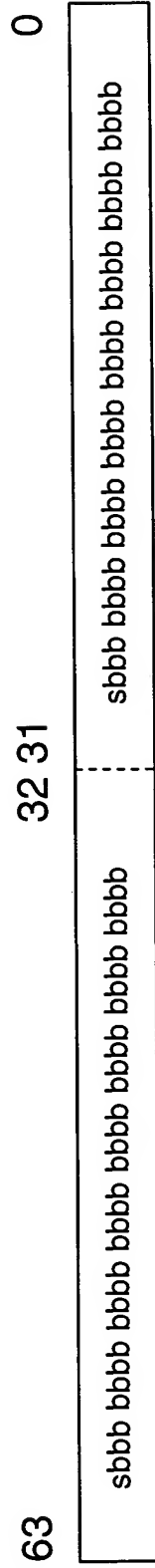
| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 63 | 48 47 | 32 31 | 16 15 | 0 |
| sbbb bbbb | sbbb bbbb | sbbb bbbb | sbbb bbbb | sbbb bbbb |

Signed packed word in-register representation 513

FIG. 5b

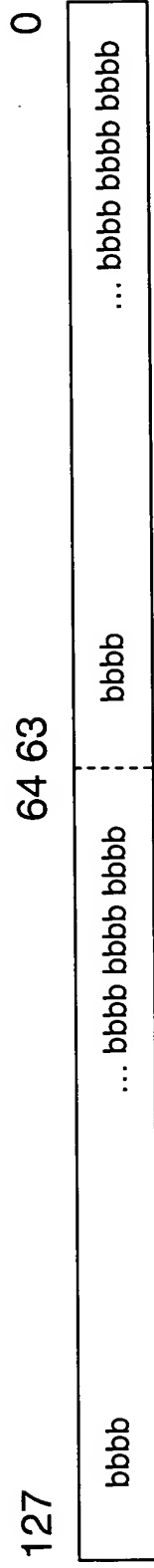


Unsigned packed doubleword in-register representation 514

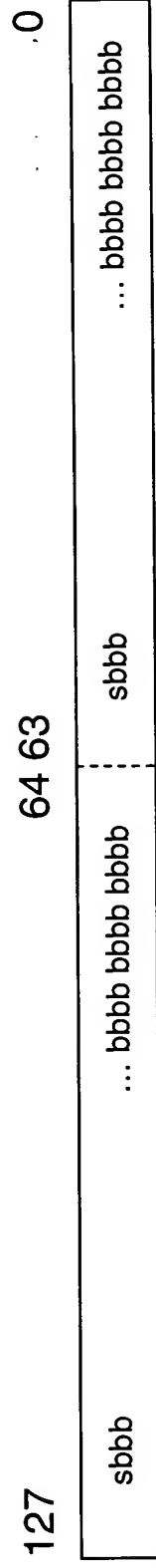


Signed packed doubleword in-register representation 515

FIG. 5c



Unsigned packed quadword in-register representation 516



Signed packed quadword in-register representation 517

FIG. 5d

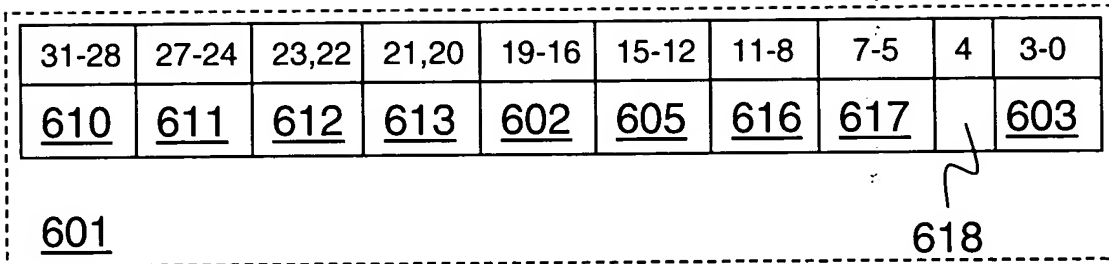


FIG. 6a

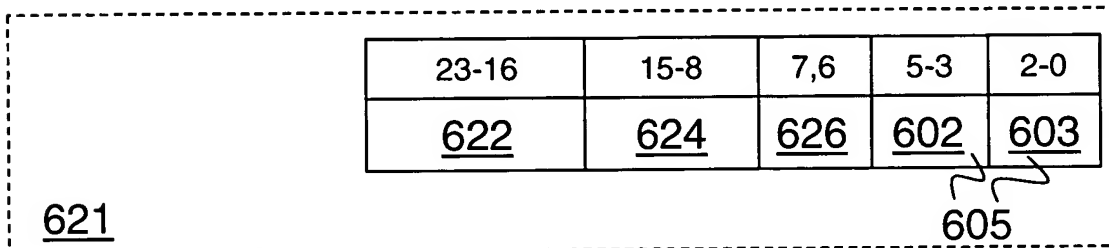


FIG. 6b

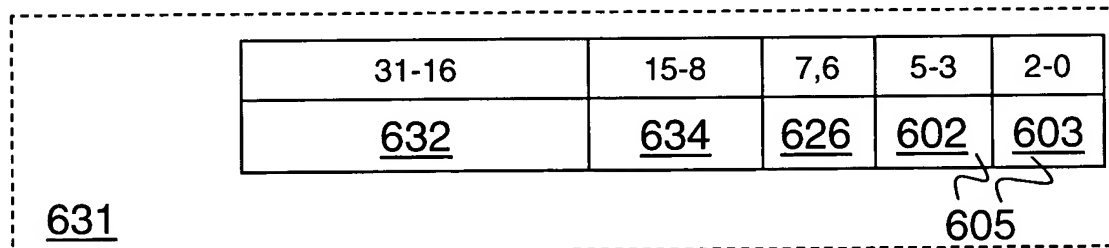


FIG. 6c

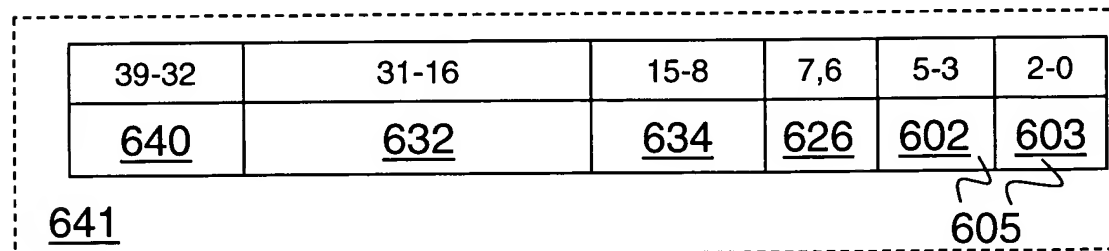


FIG. 6d

FIG. 7a

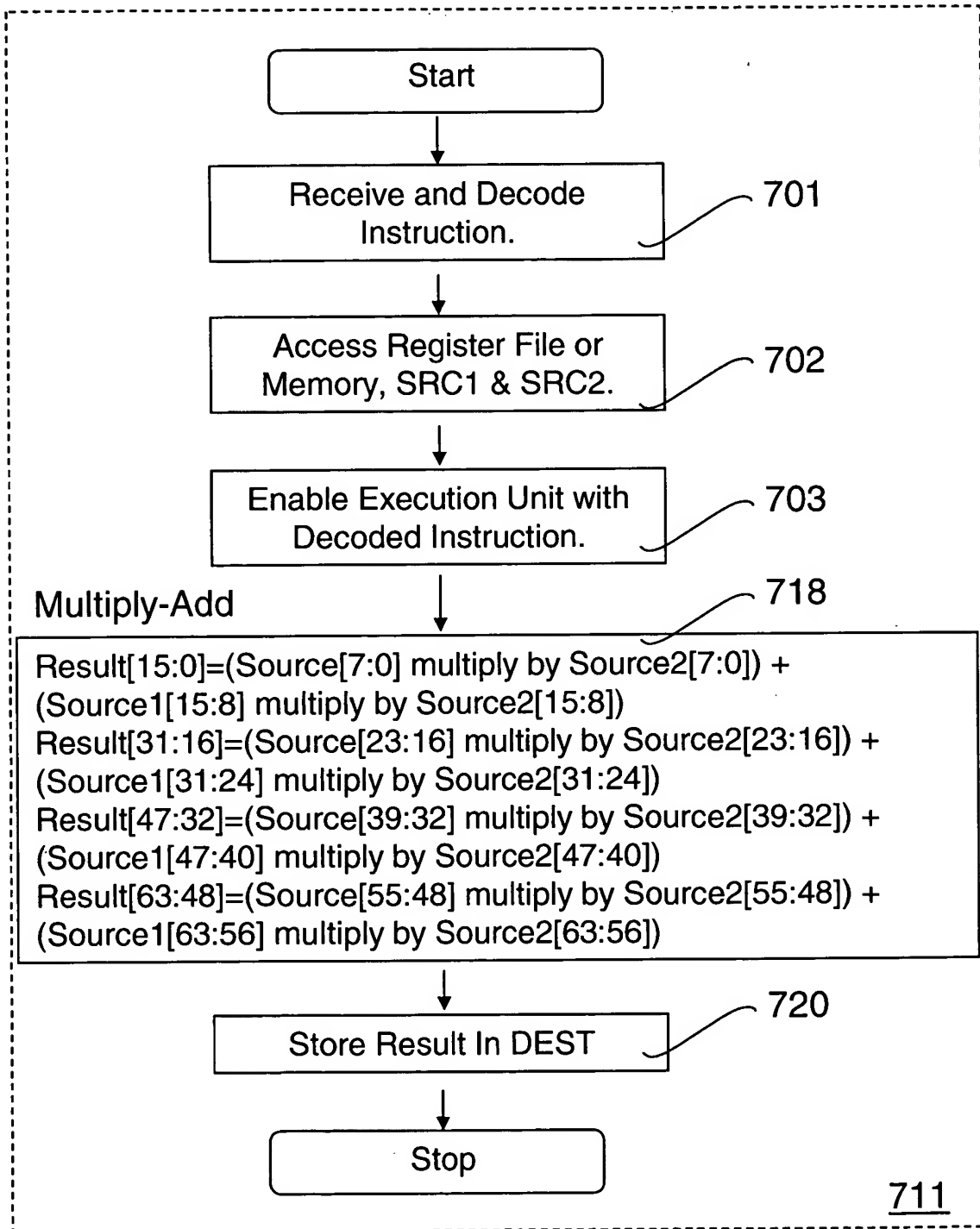
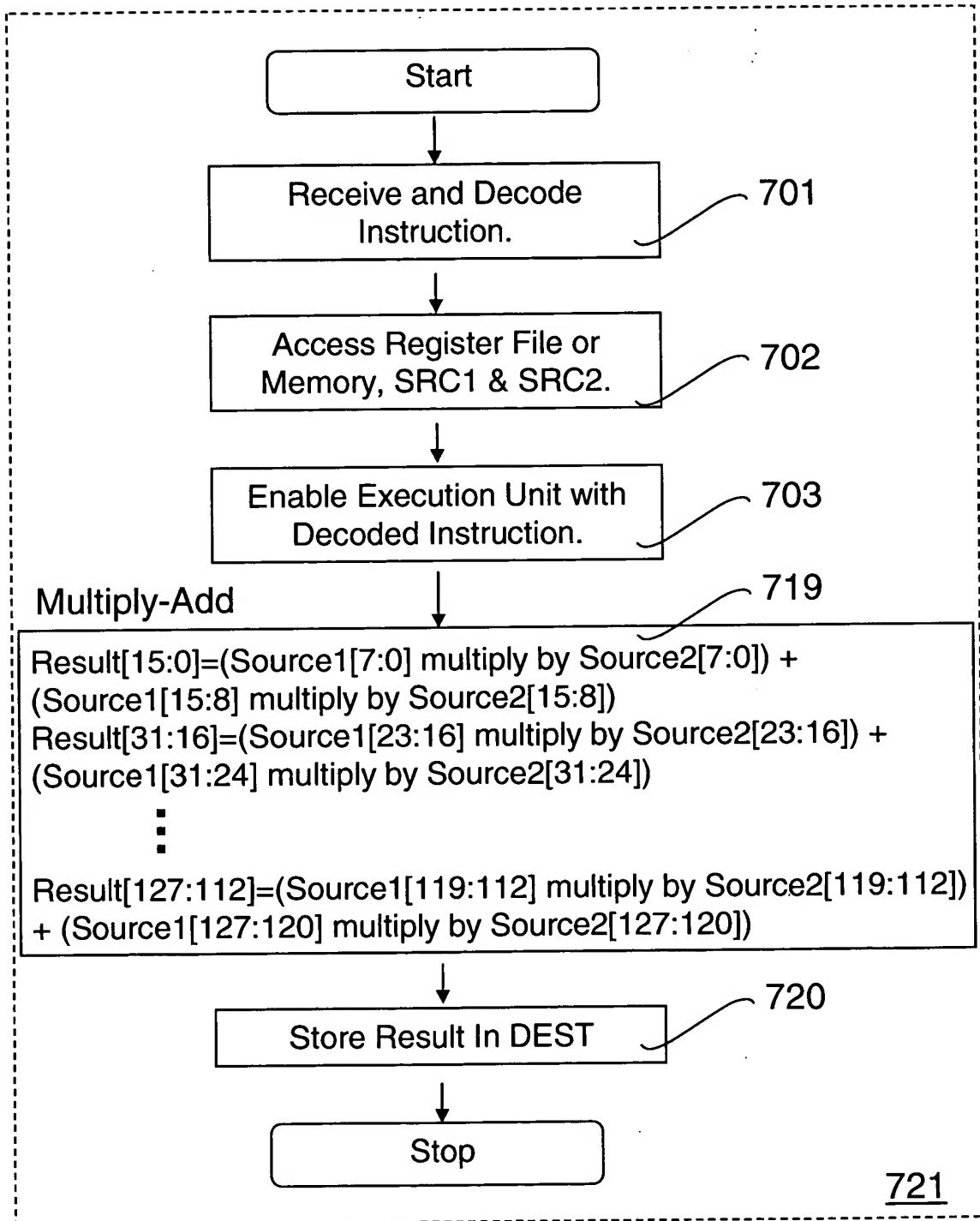
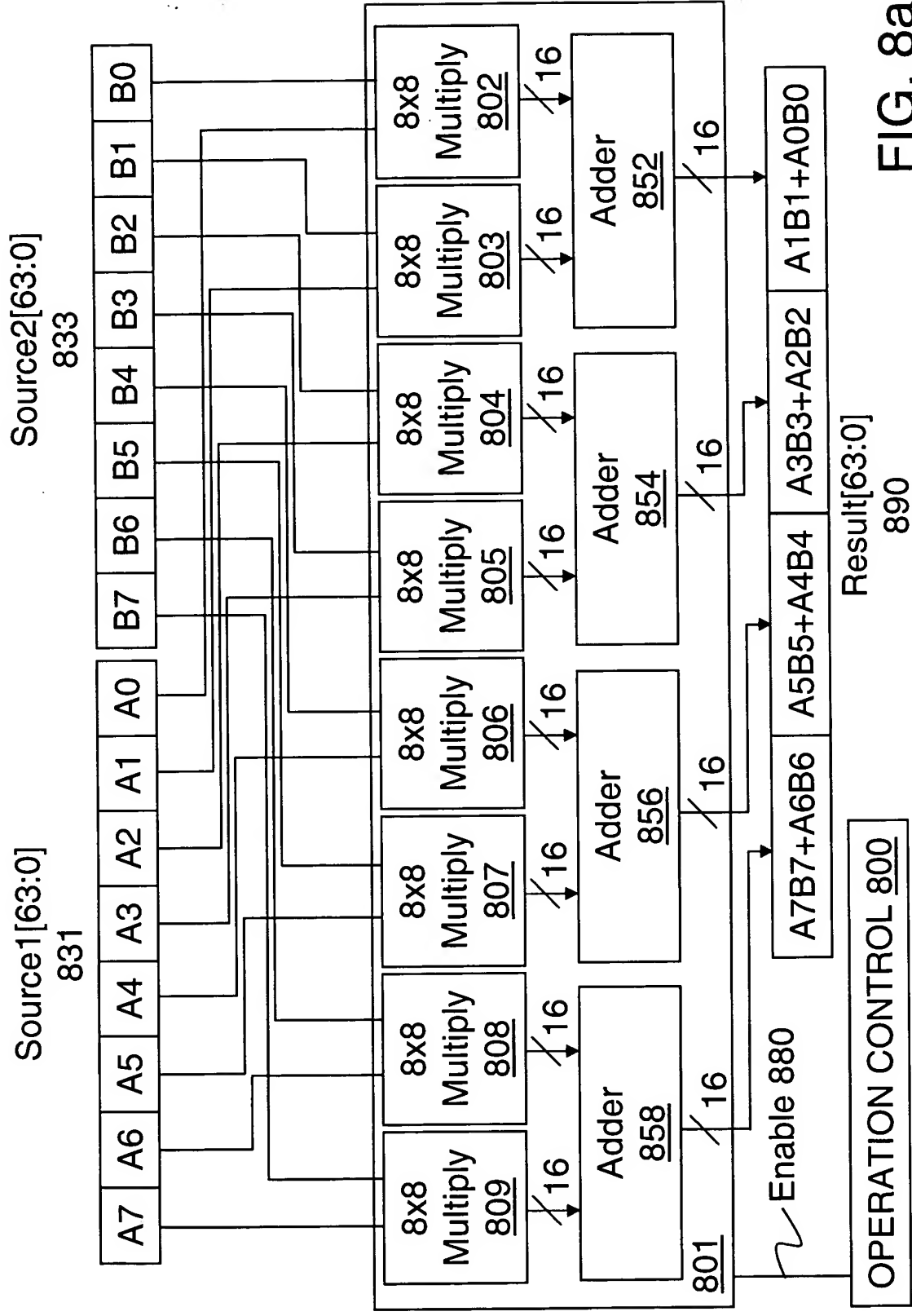


FIG. 7b





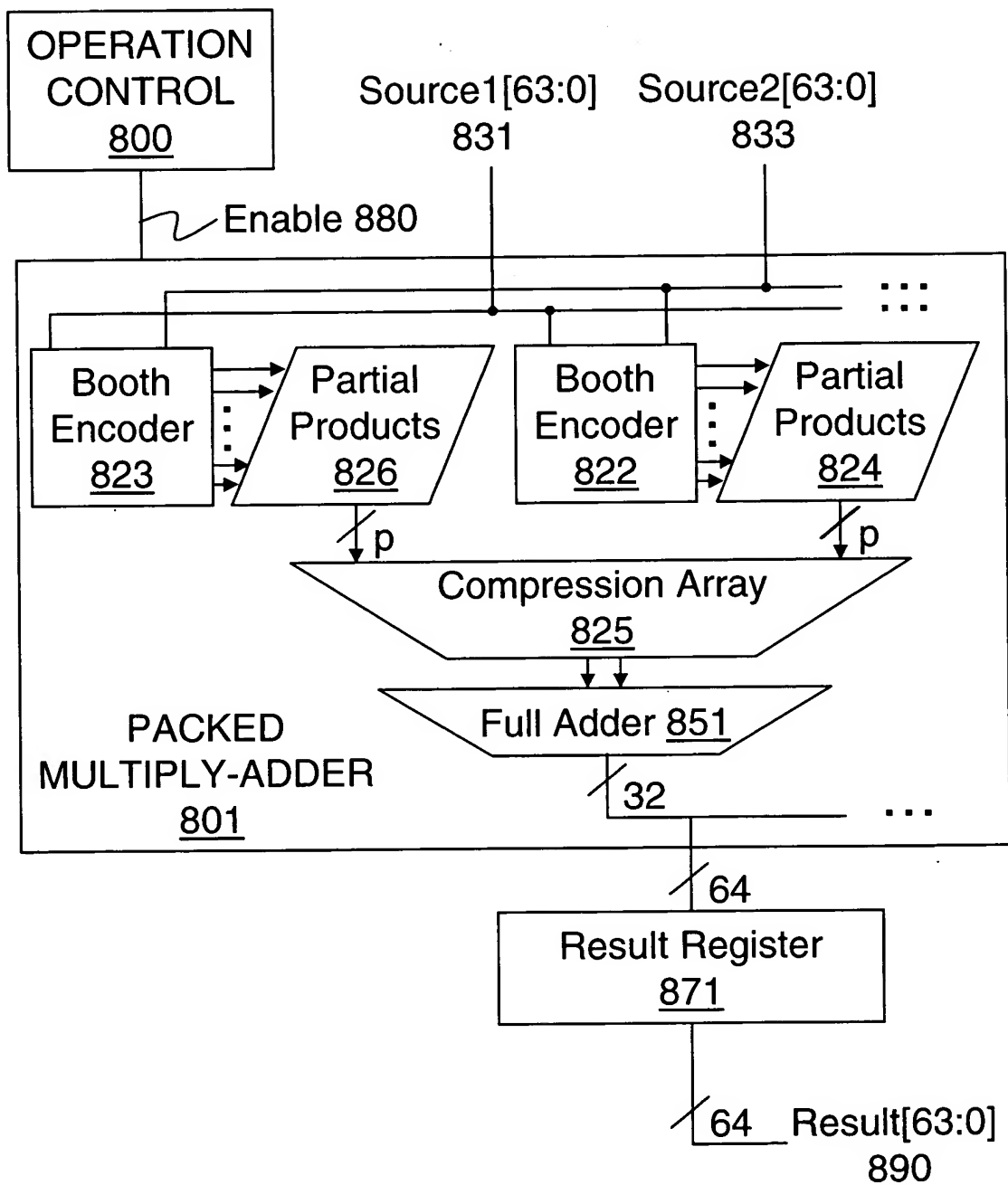


FIG. 8b

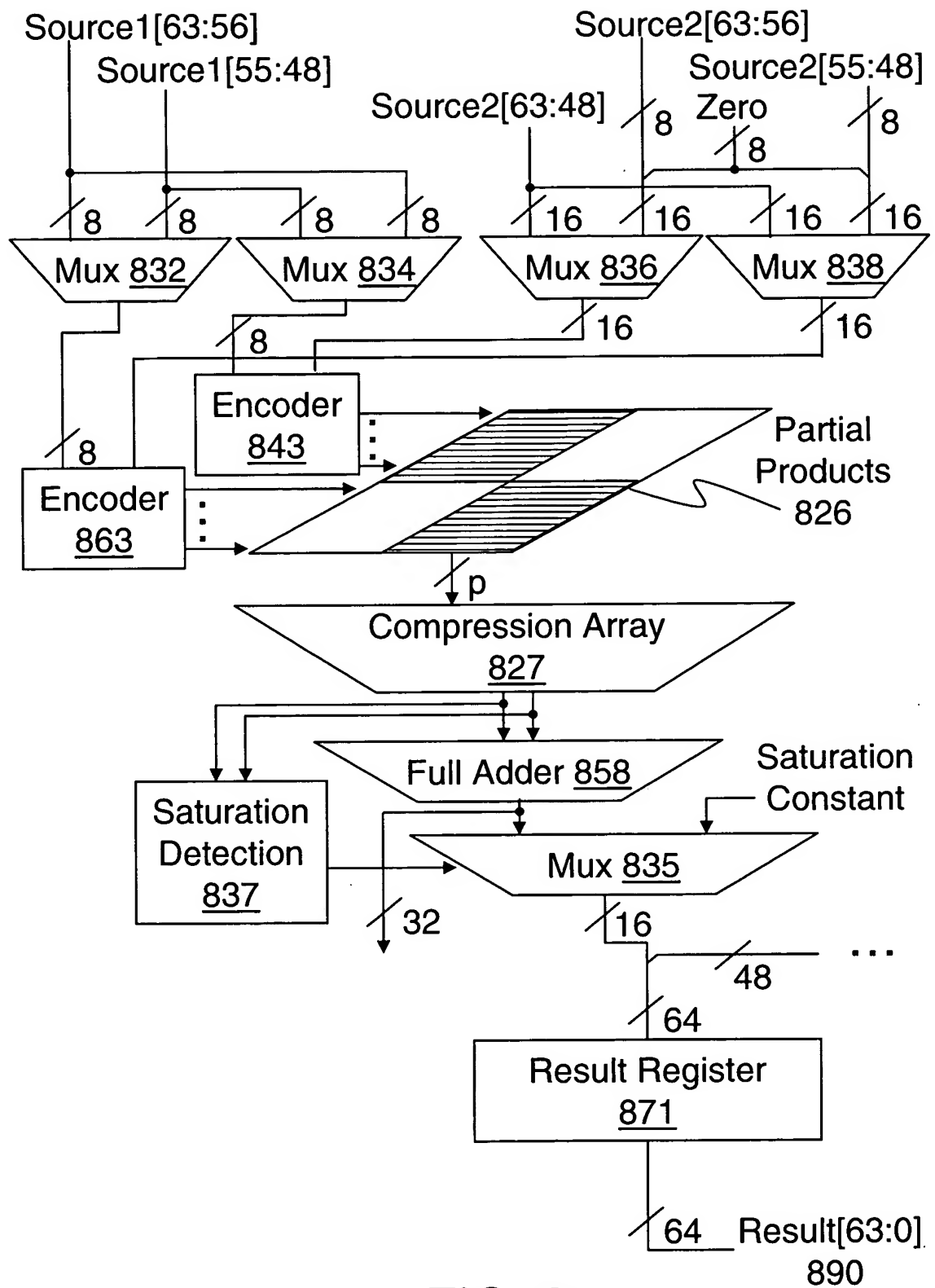


FIG. 8c

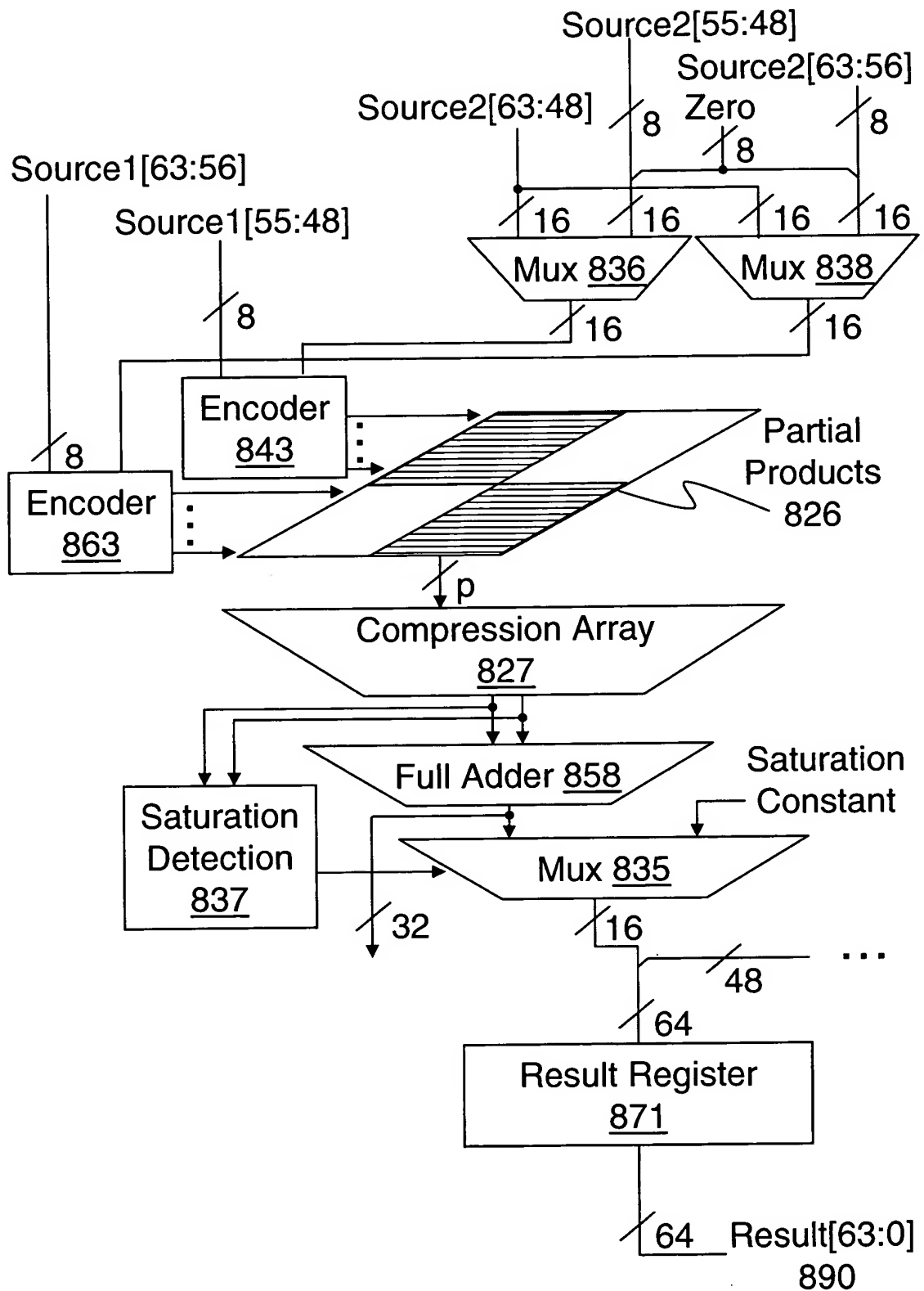


FIG. 8d

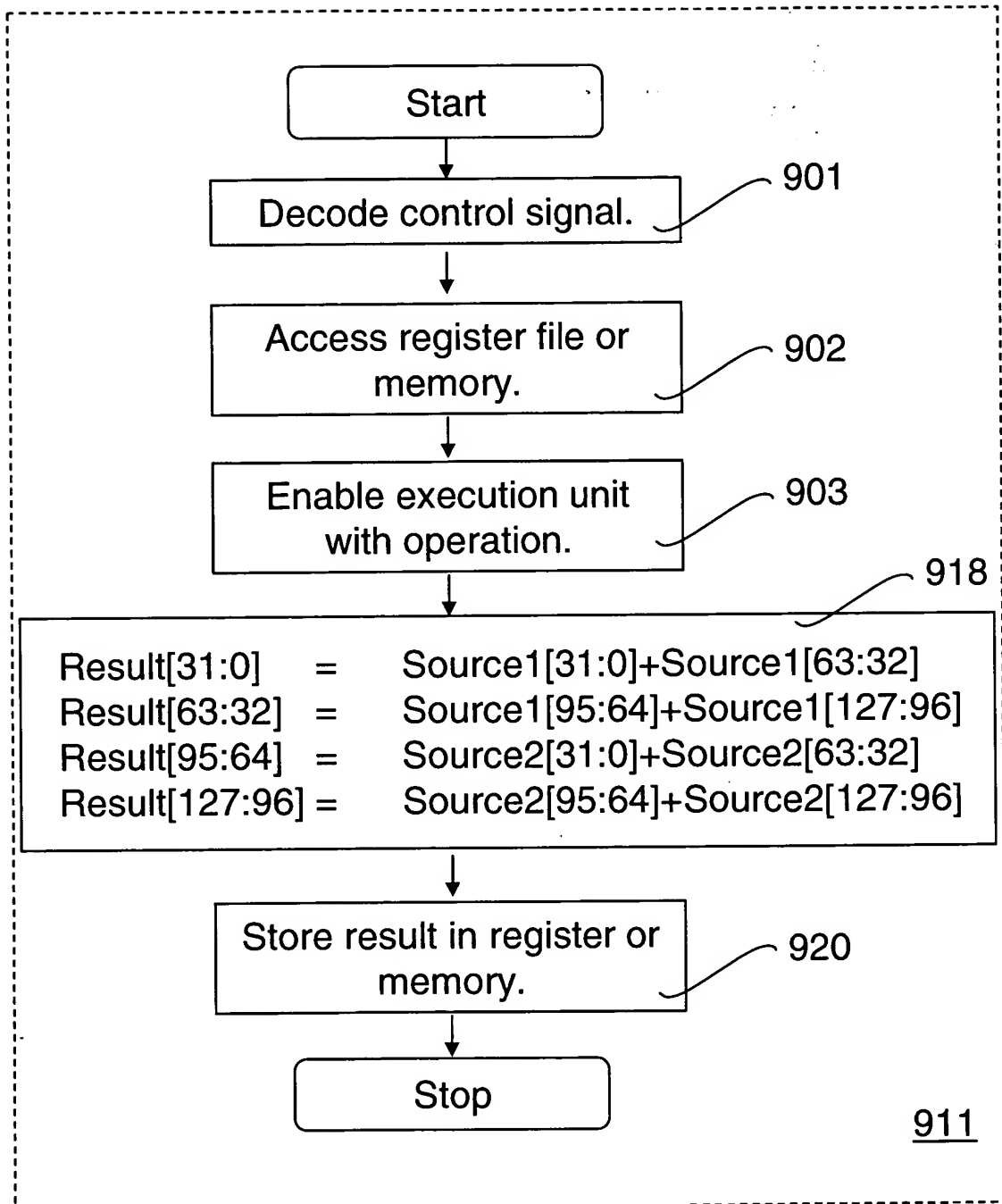


FIG. 9a

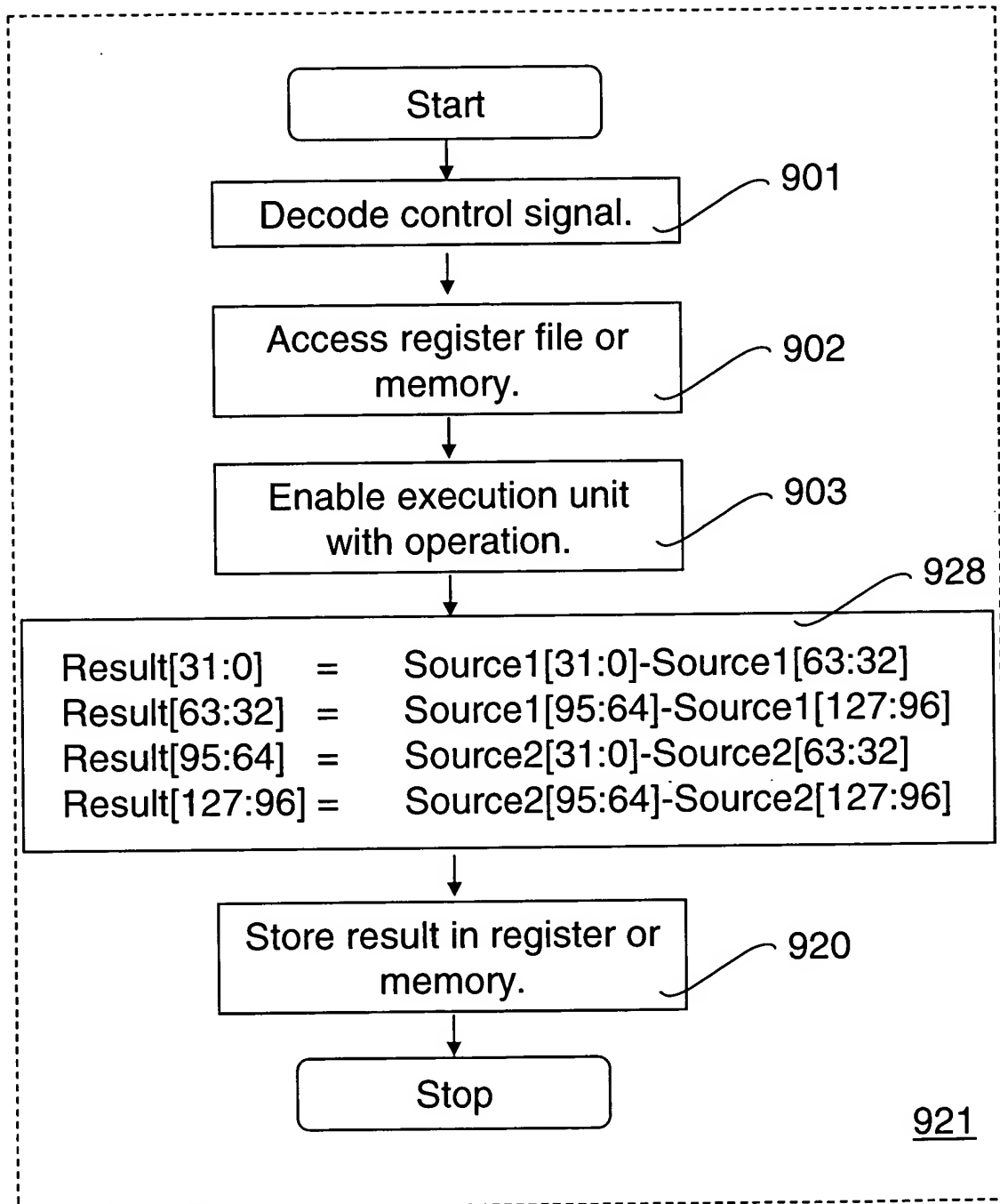


FIG. 9b

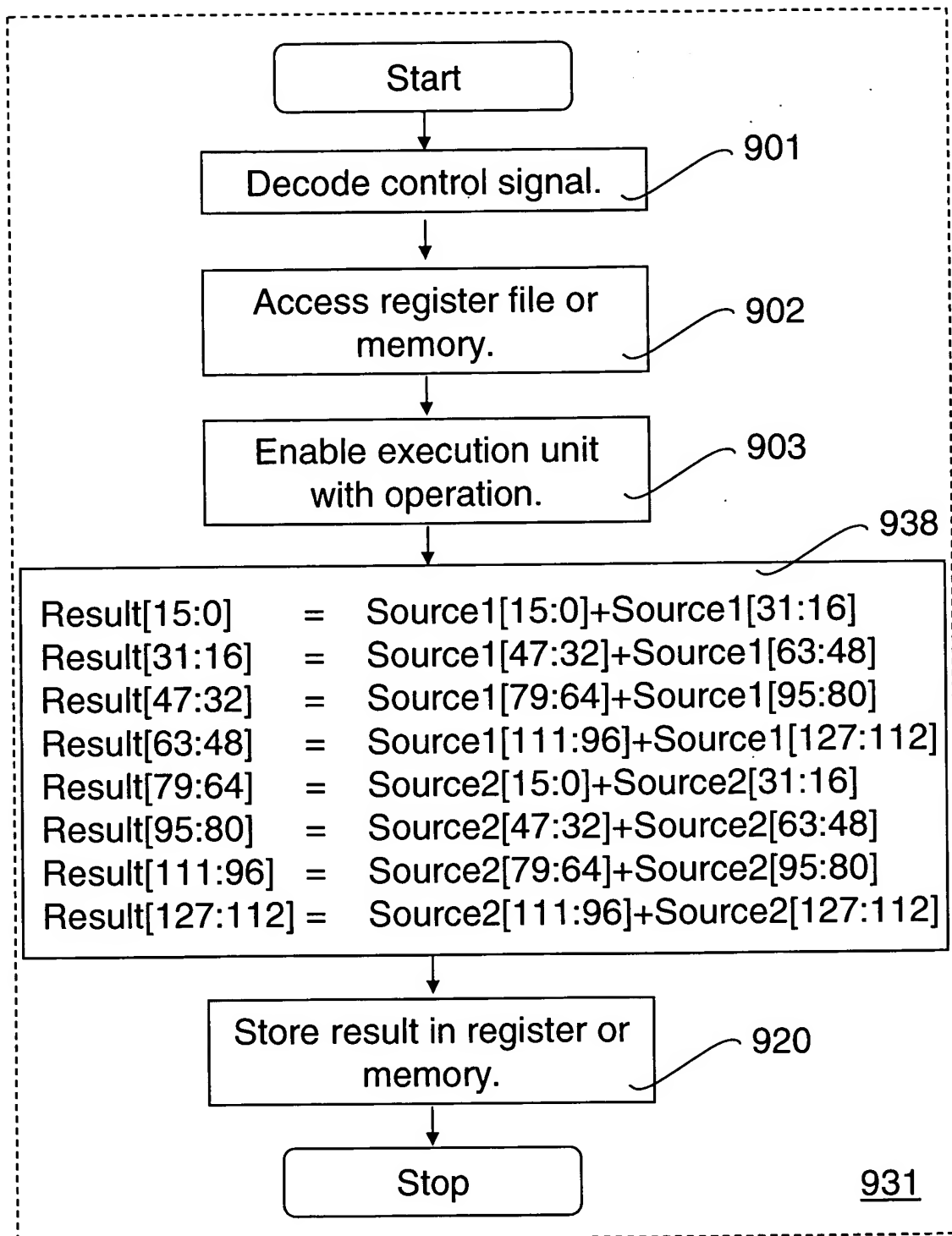


FIG. 9c

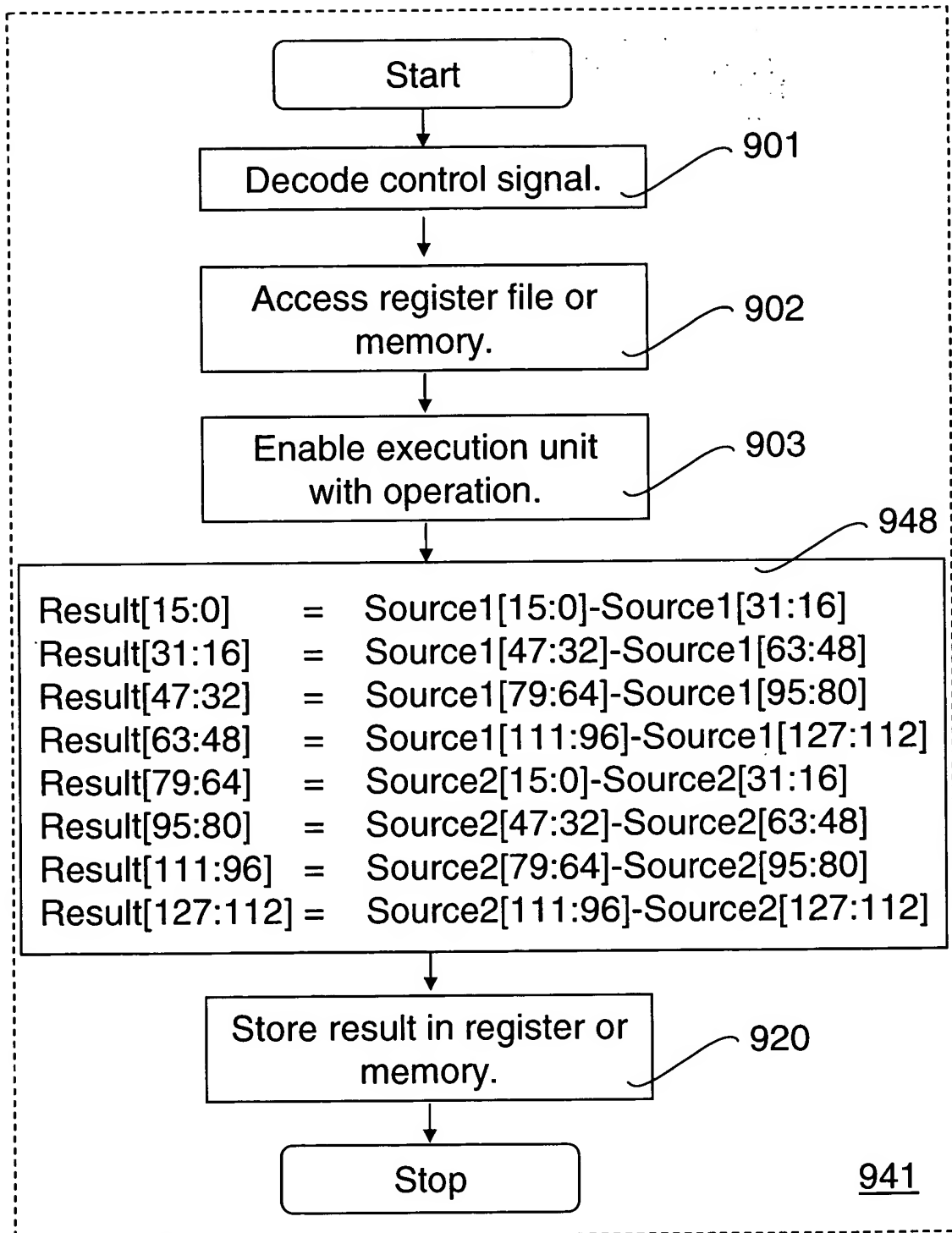


FIG. 9d

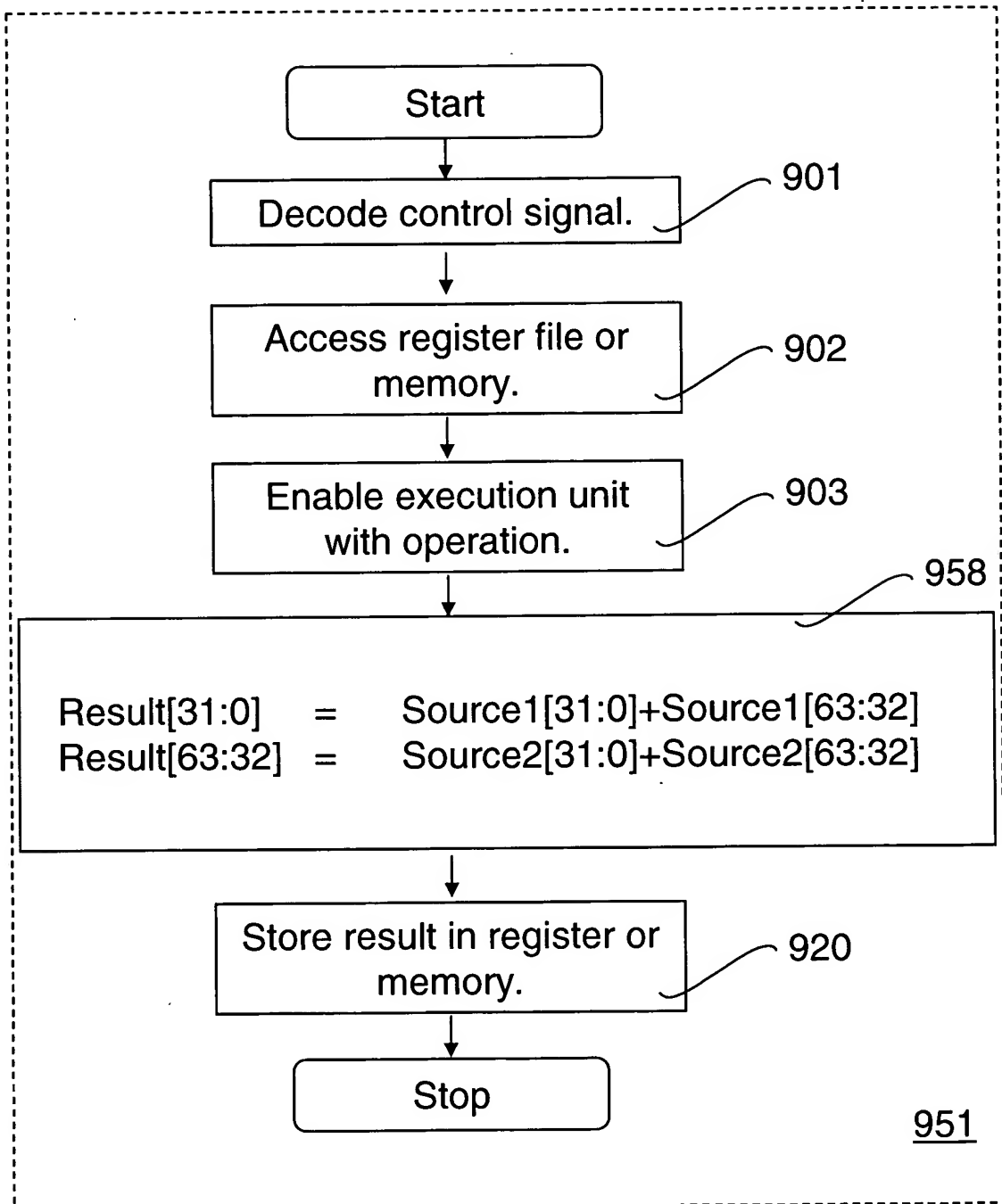


FIG. 9e

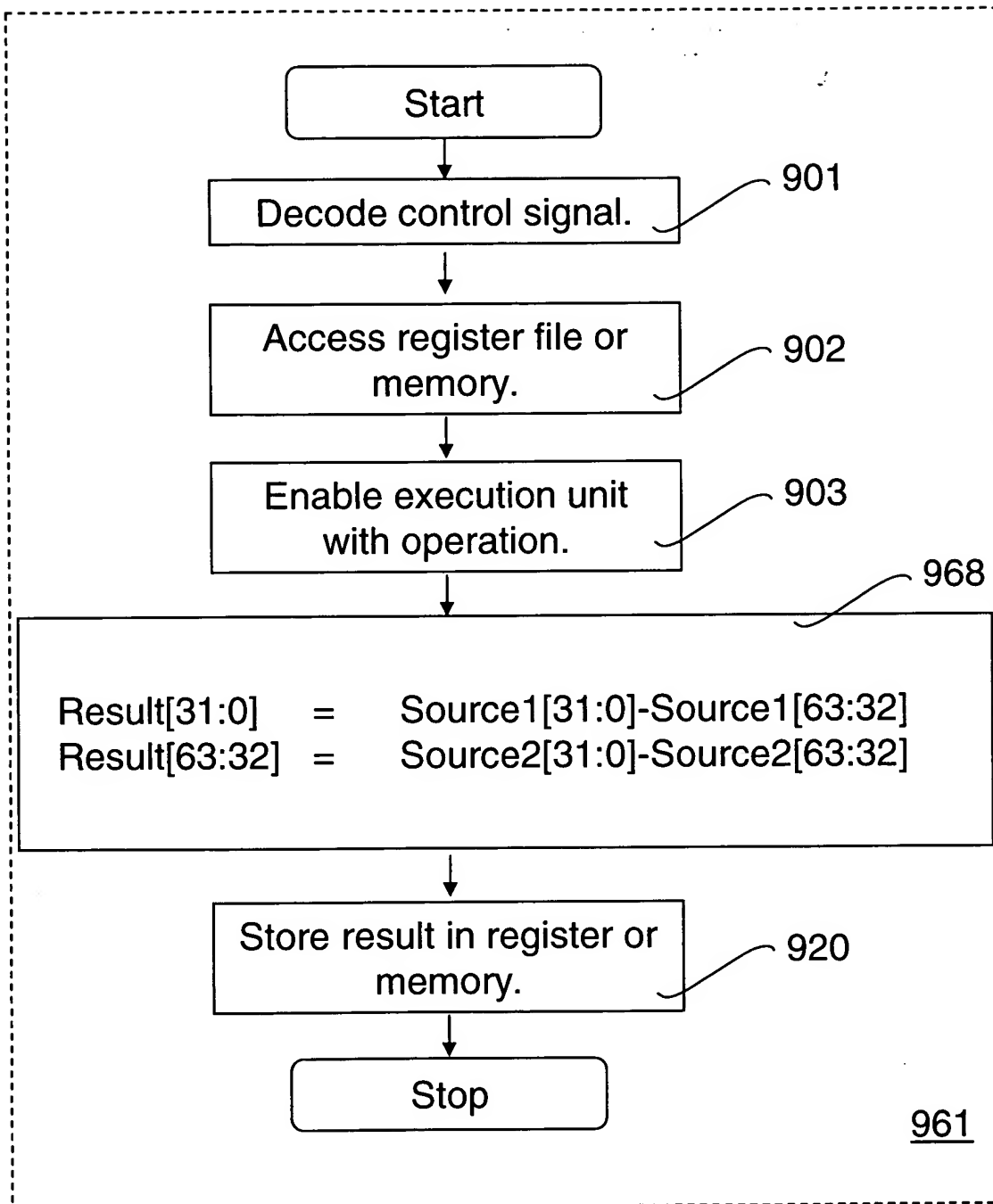


FIG. 9f

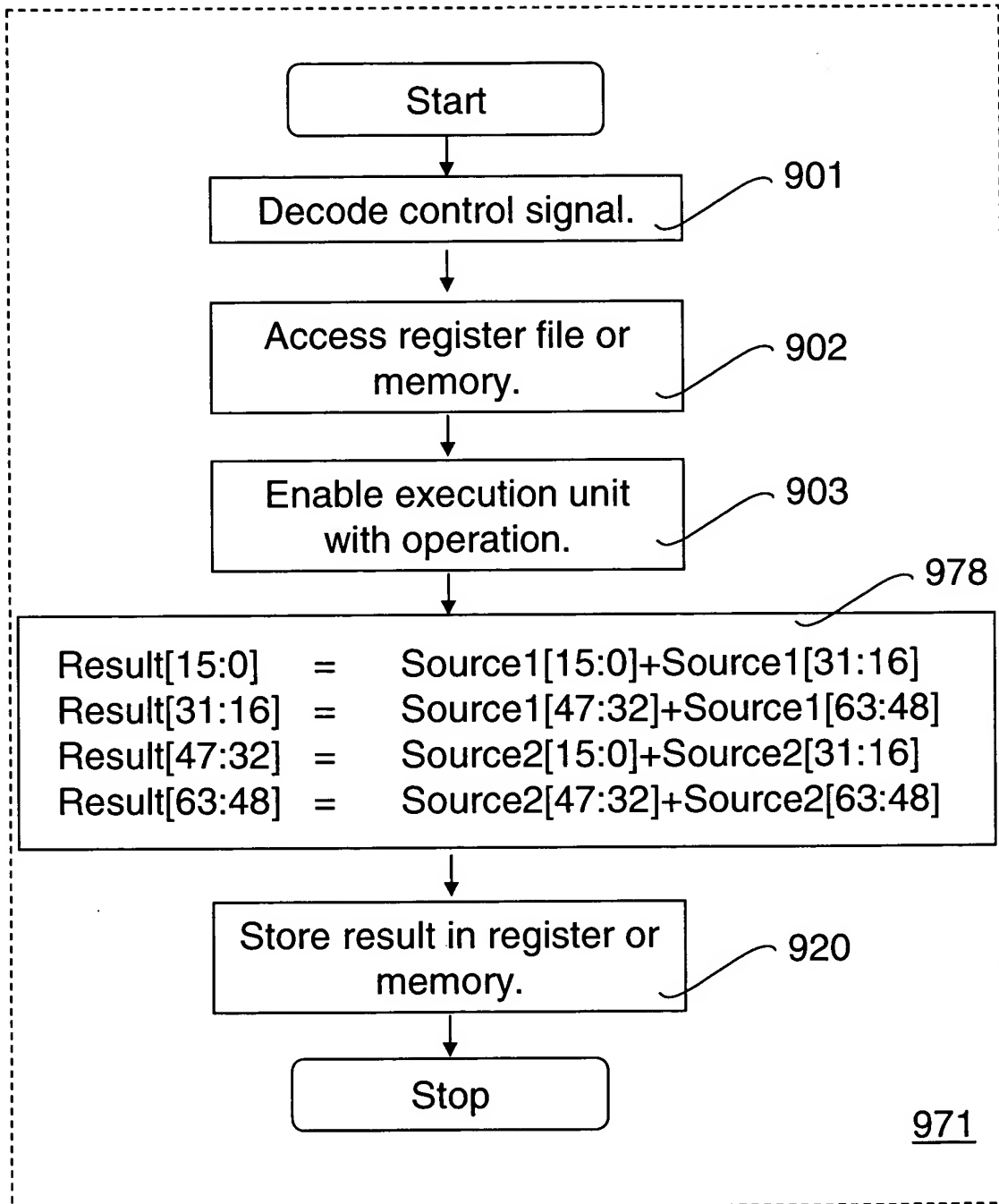


FIG. 9g

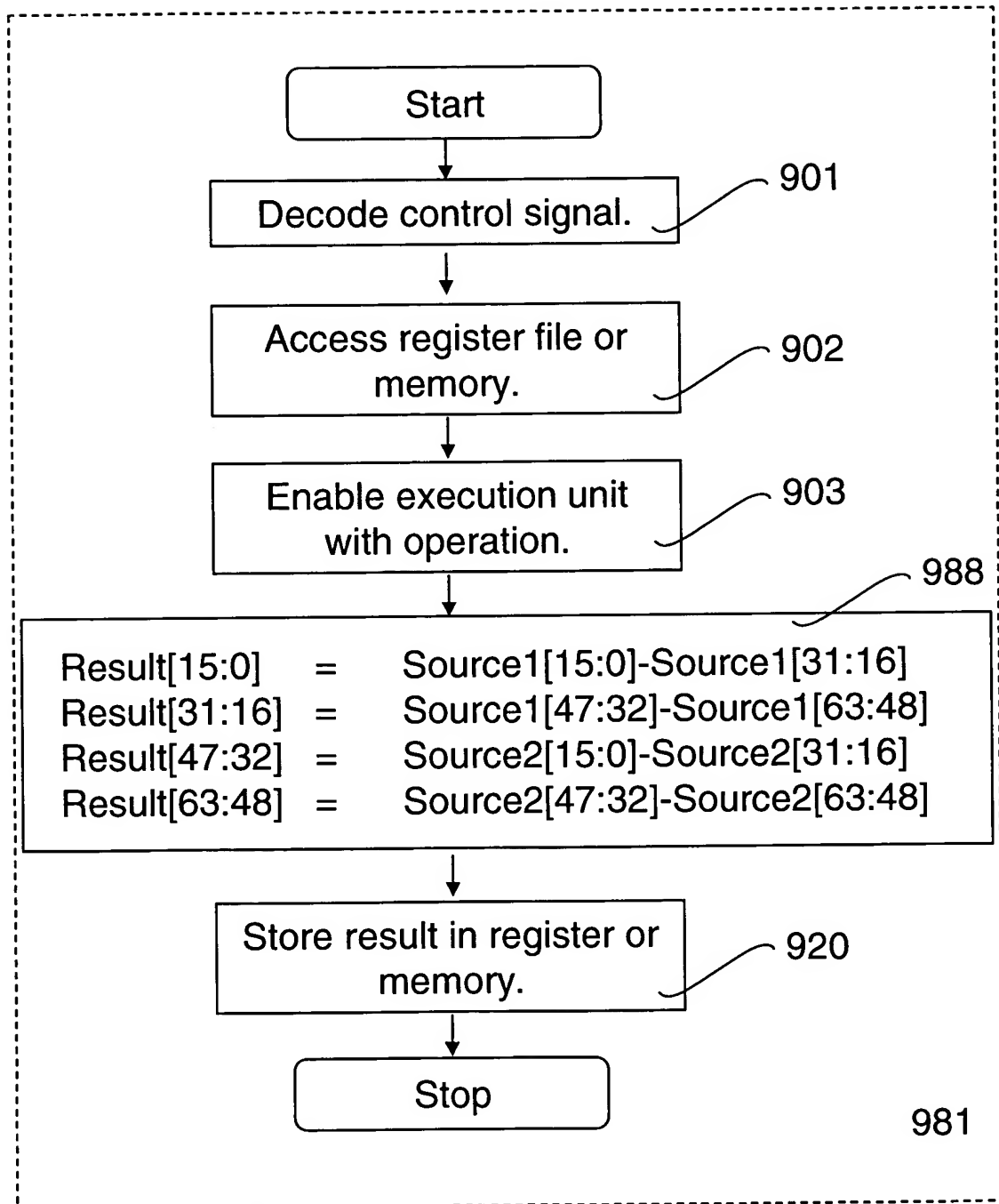


FIG. 9h

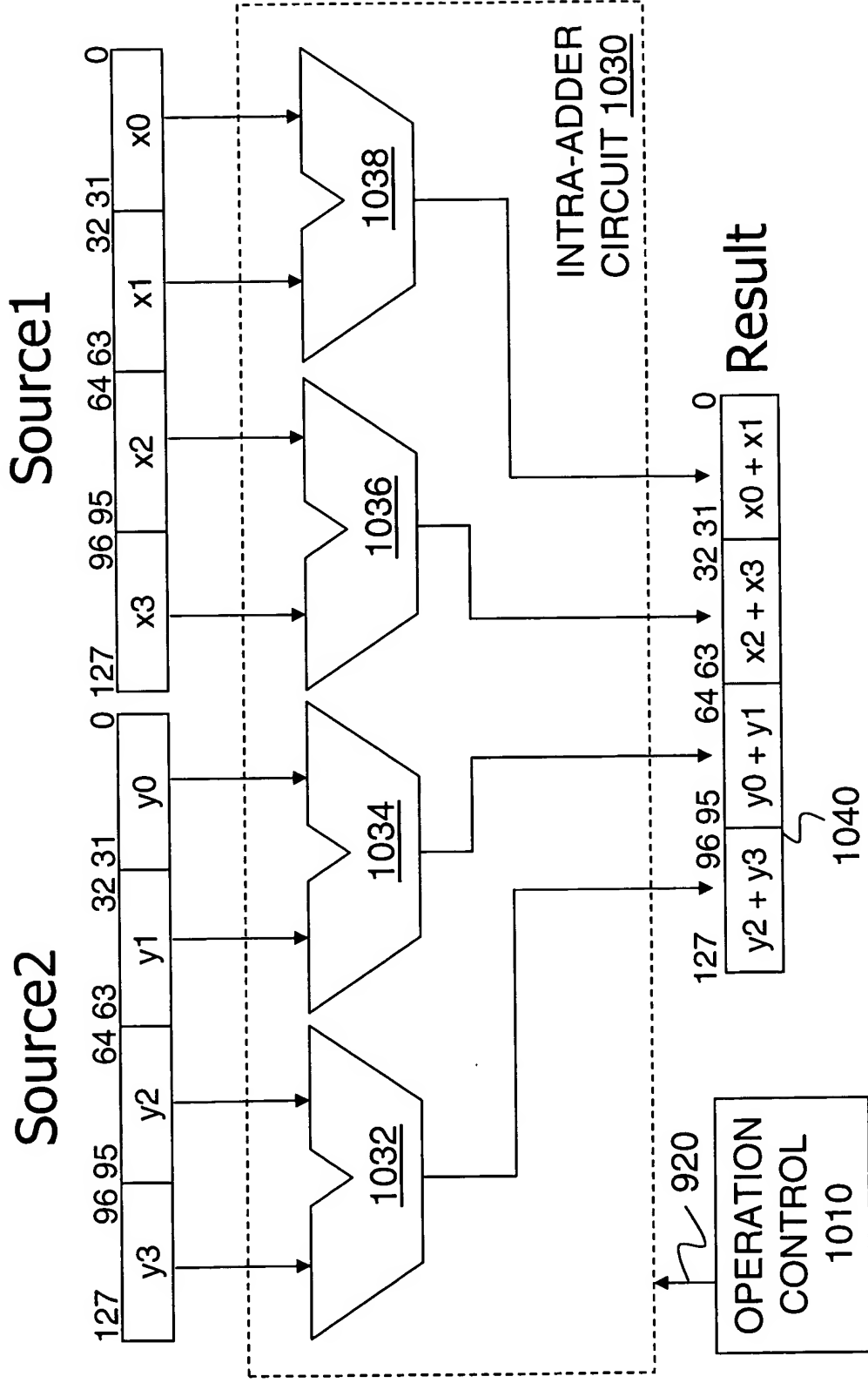


FIG. 10a

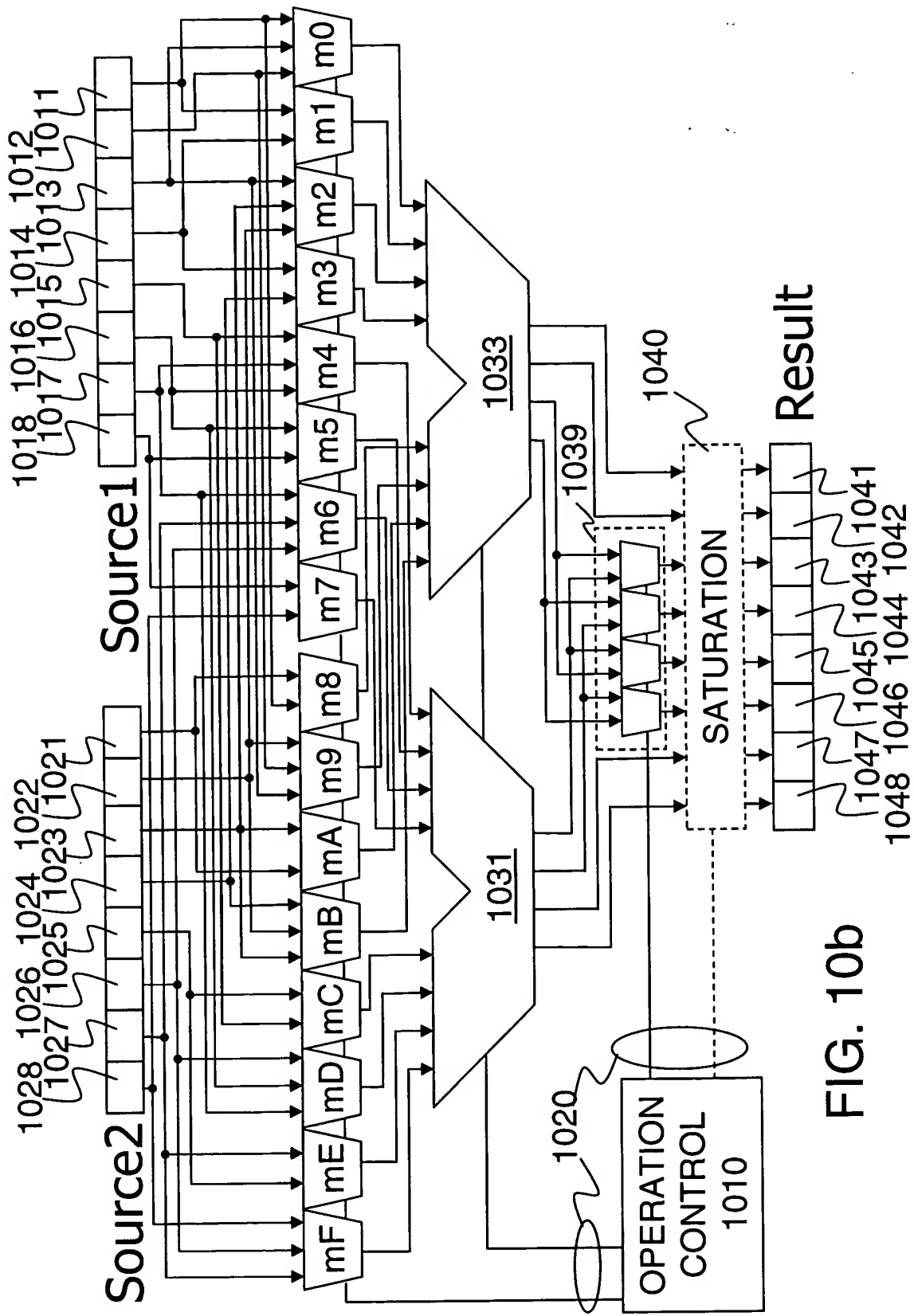
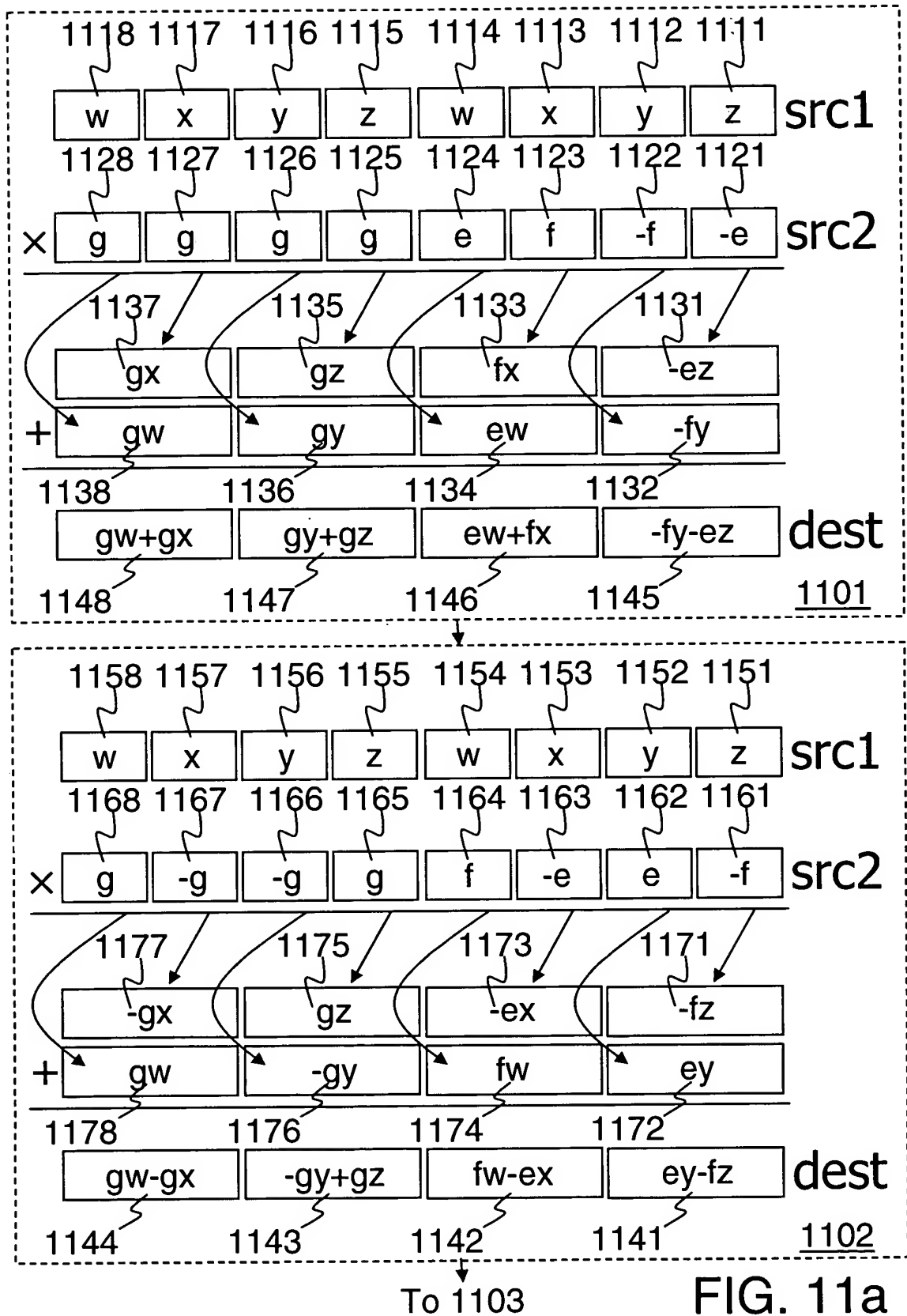


FIG. 10b



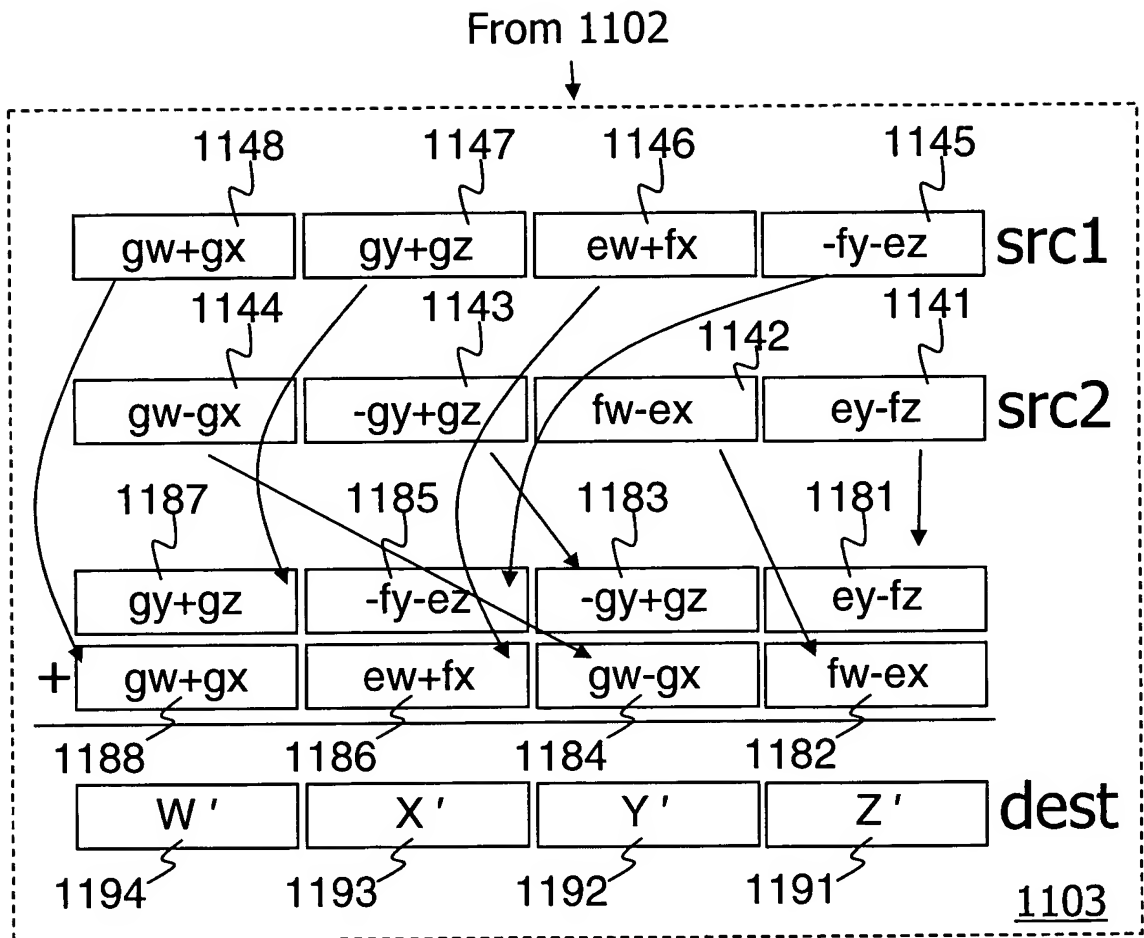


FIG. 11b

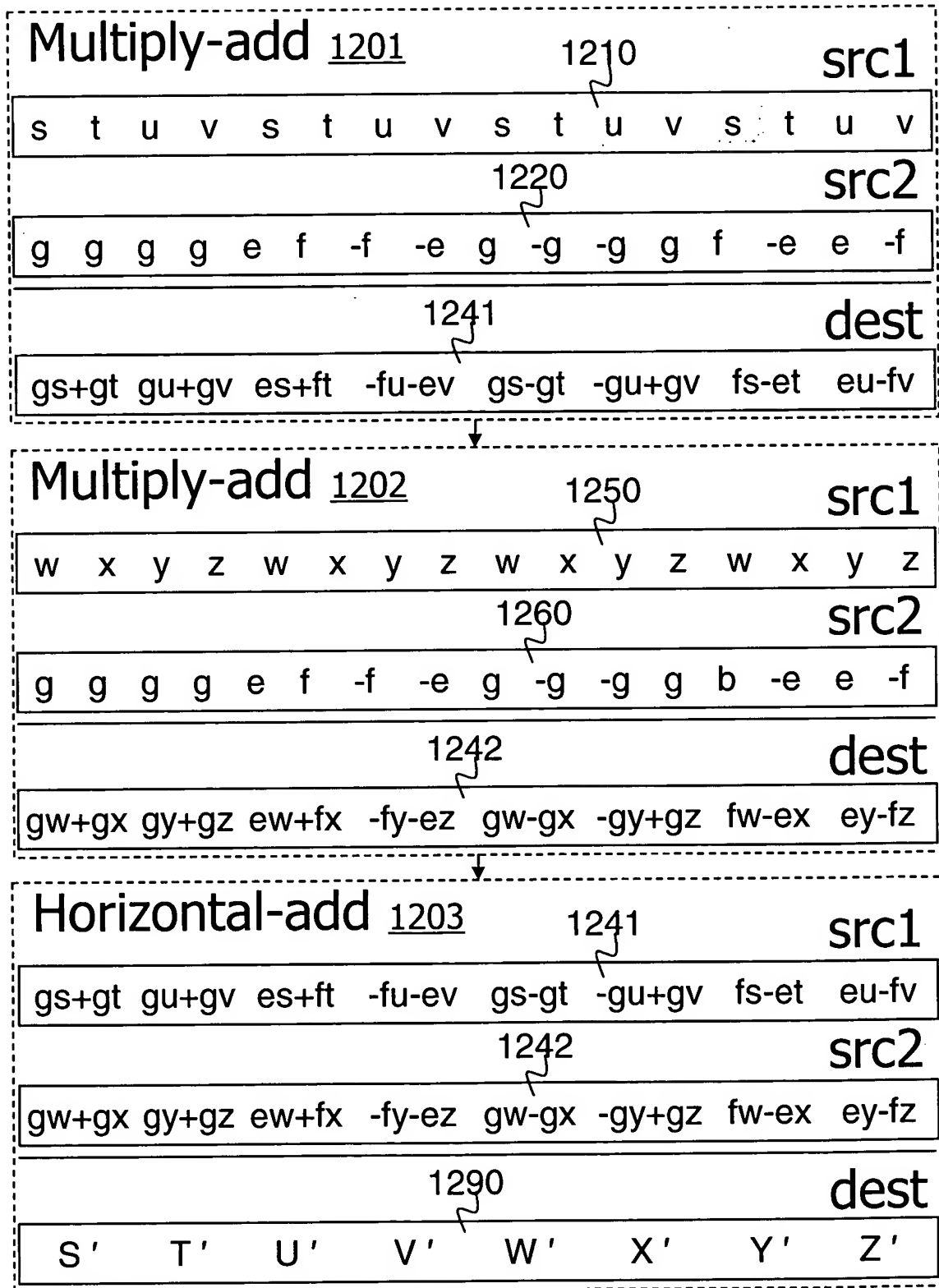


FIG. 12

$$\begin{aligned}
& \begin{bmatrix} g & g & g & g \\ e & f & -f & -e \\ g & -g & -g & g \\ f & -e & e & -f \end{bmatrix} \begin{bmatrix} k & l & m & n \\ o & p & q & r \\ s & t & u & v \\ w & x & y & z \end{bmatrix} \begin{bmatrix} g & e & g & f \\ g & f & -g & -e \\ g & -f & -g & e \\ g & -e & g & -f \end{bmatrix} \\
& = \begin{bmatrix} g & g & g & g \\ e & f & -f & -e \\ g & -g & -g & g \\ f & -e & e & -f \end{bmatrix} \begin{bmatrix} K' & L' & M' & N' \\ O' & P' & Q' & R' \\ S' & T' & U' & V' \\ W' & X' & Y' & Z' \end{bmatrix} \\
& = \begin{bmatrix} K & L & M & N \\ O & P & Q & R \\ S & T & U & V \\ W & X & Y & Z \end{bmatrix} \\
& \begin{array}{ll} K' = kg + lg + mg + ng & S' = sg + tg + ug + vg \\ L' = ke + lf - mf - ne & T' = se + tf - uf - ve \\ M' = kg - lg - mg + ng & U' = sg - tg - ug + vg \\ N' = kf - le + me - nf & V' = sf - te + ue - vf \\ O' = og + pg + qg + rg & W' = wg + xg + yg + zg \\ P' = oe + pf - qf - re & X' = we + xf - yf - ze \\ Q' = og - pg - qg + rg & Y' = wg - xg - yg + zg \\ R' = of - pe + qe - rf & Z' = wf - xe + ye - zf \end{array}
\end{aligned}$$

1310

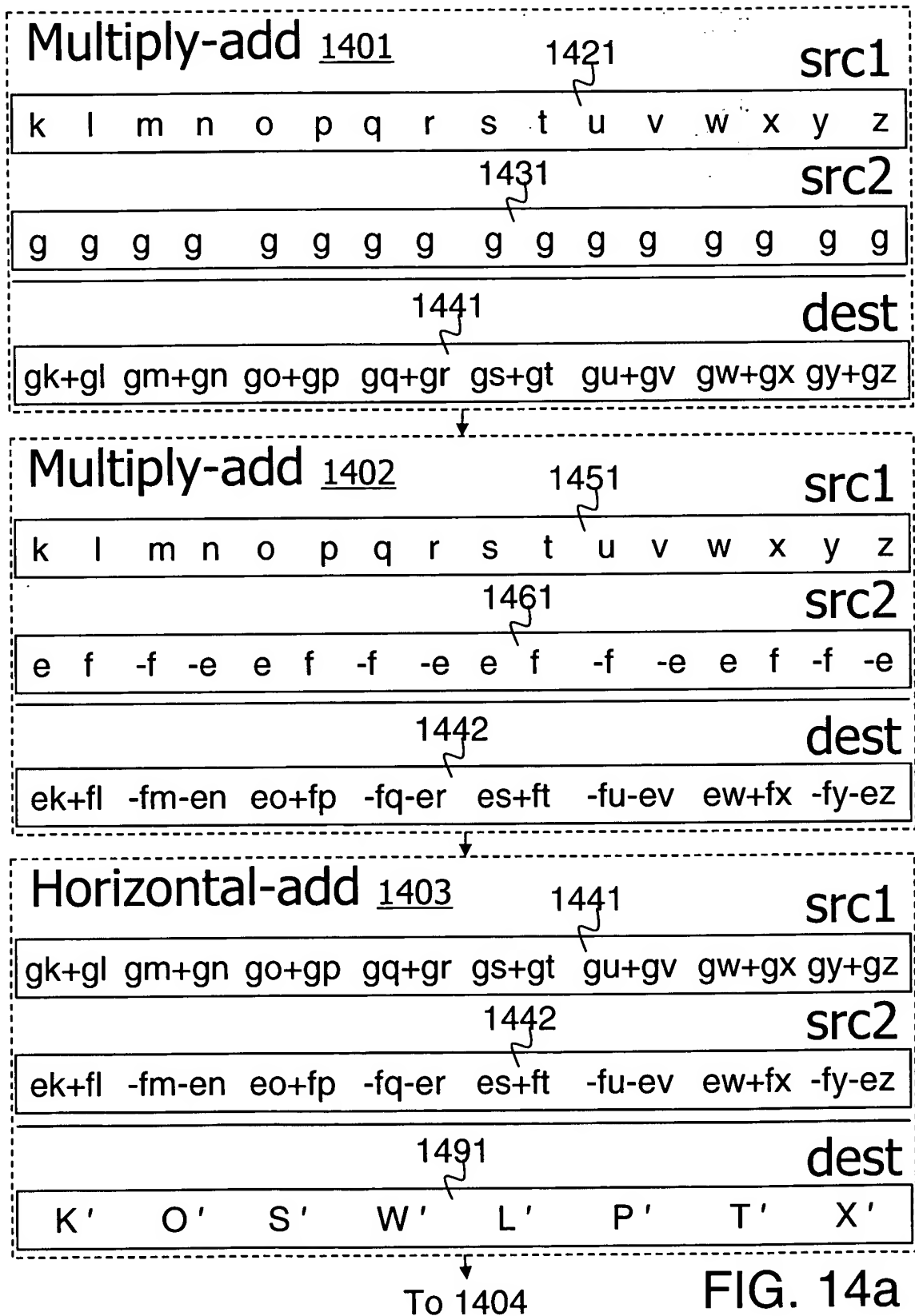
1320

1321 1330

1340

1350

FIG. 13



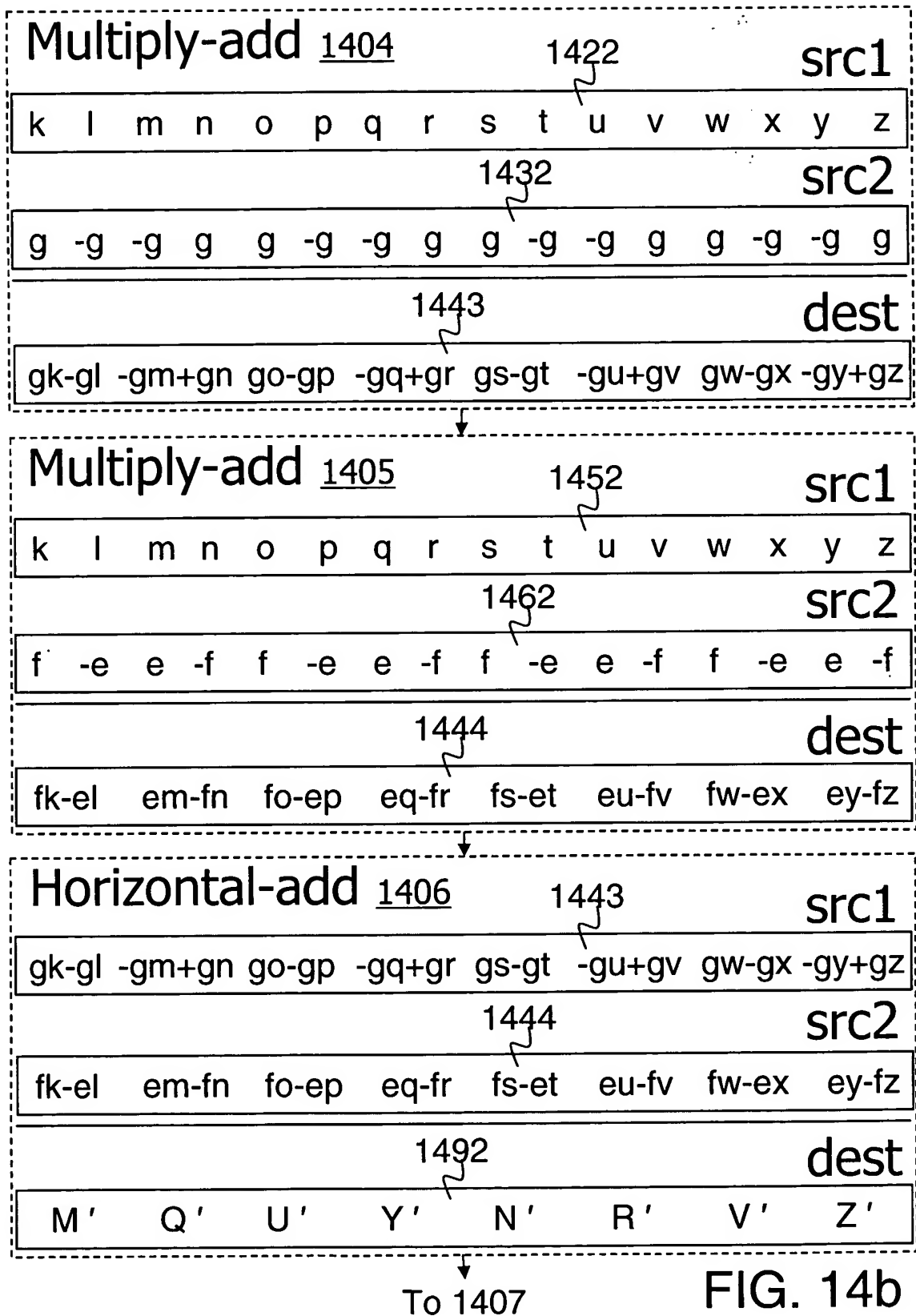
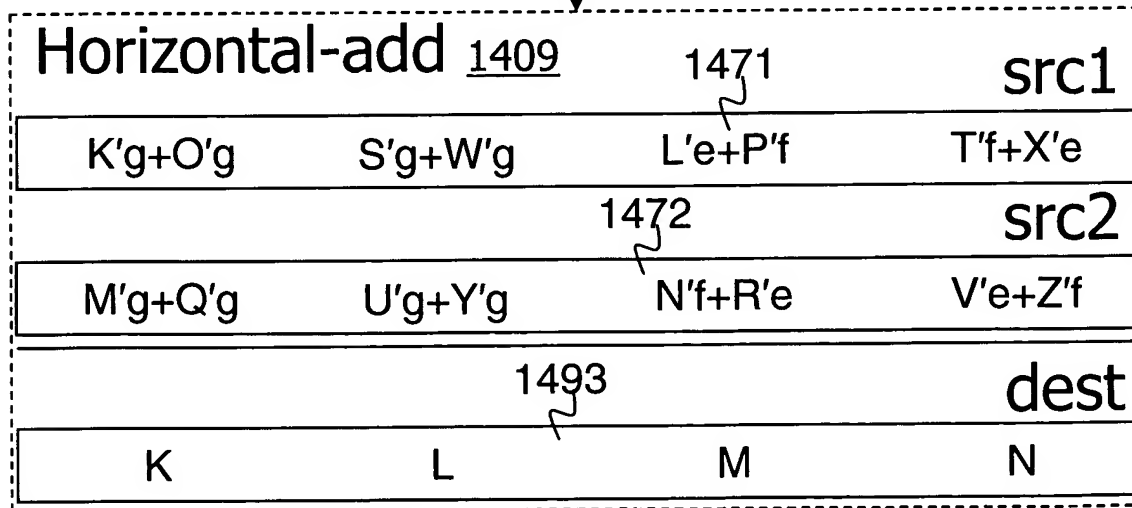
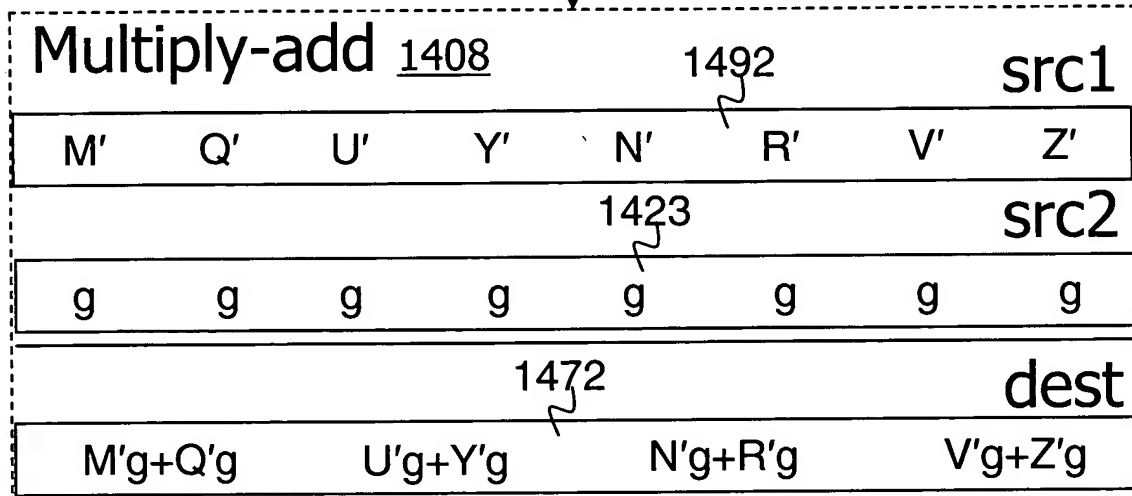
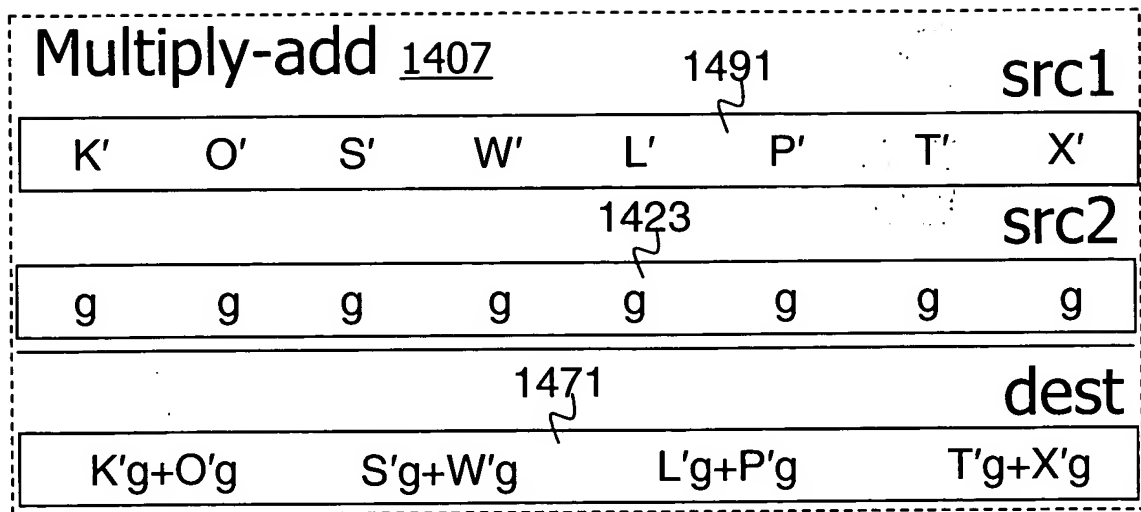
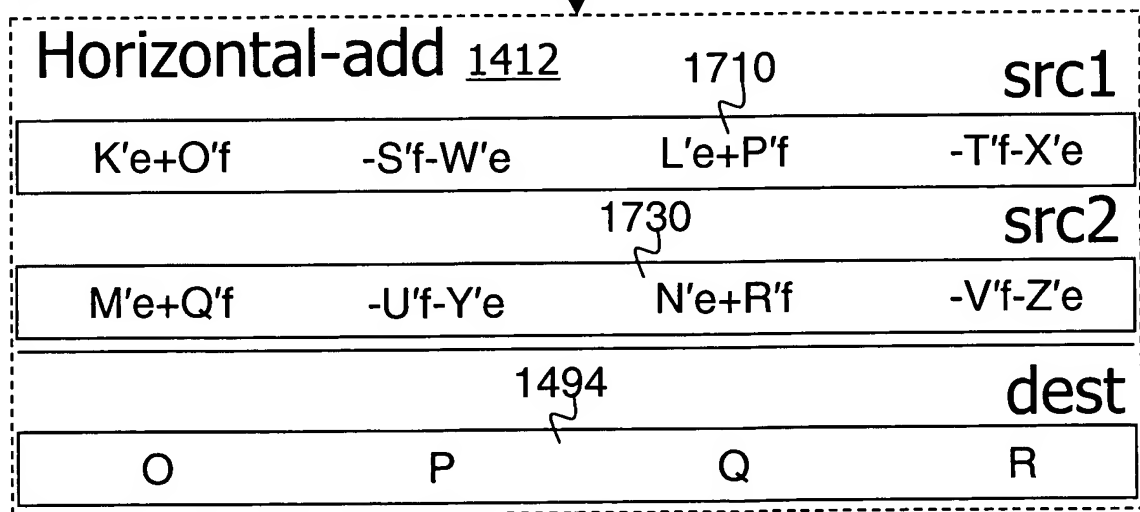
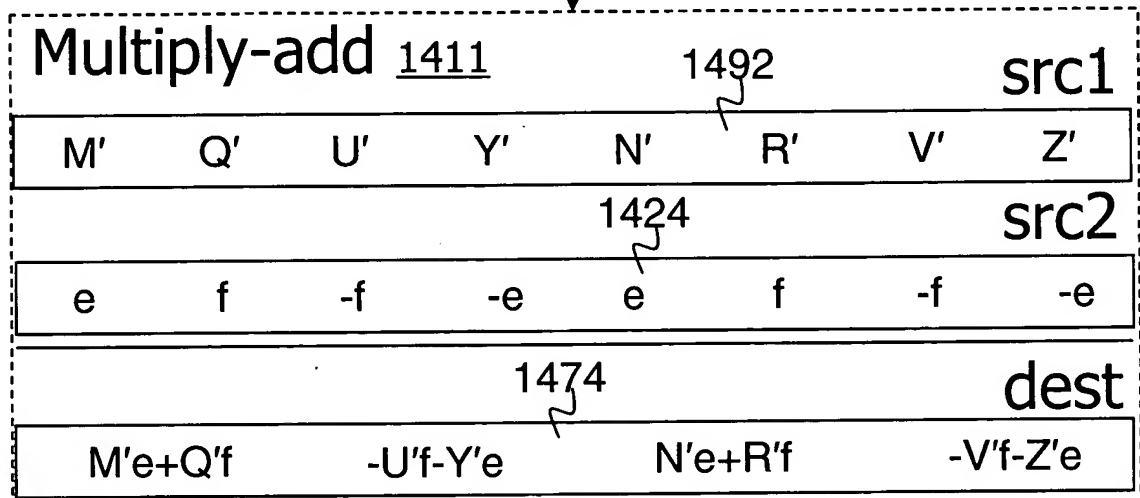
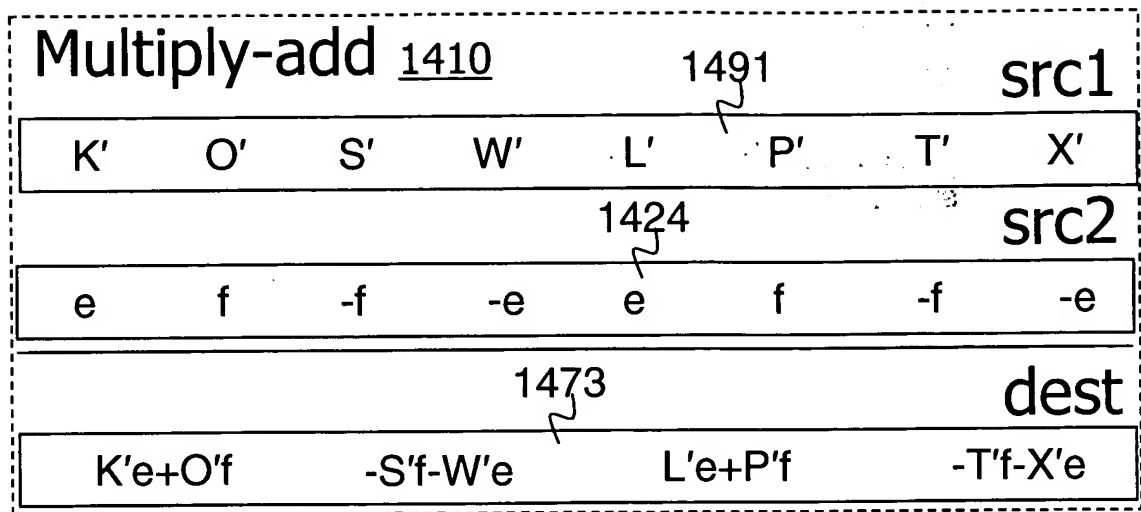


FIG. 14b



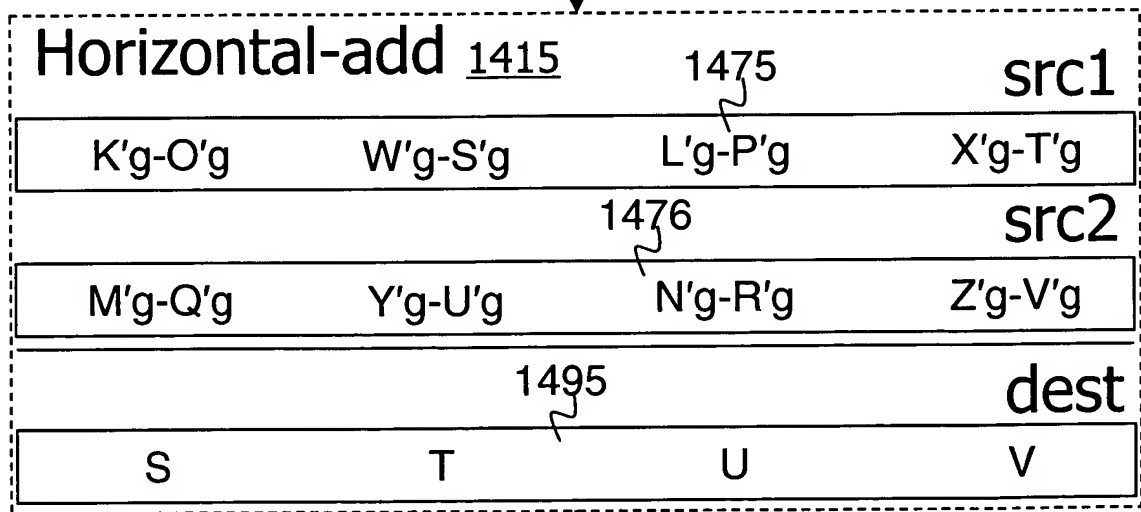
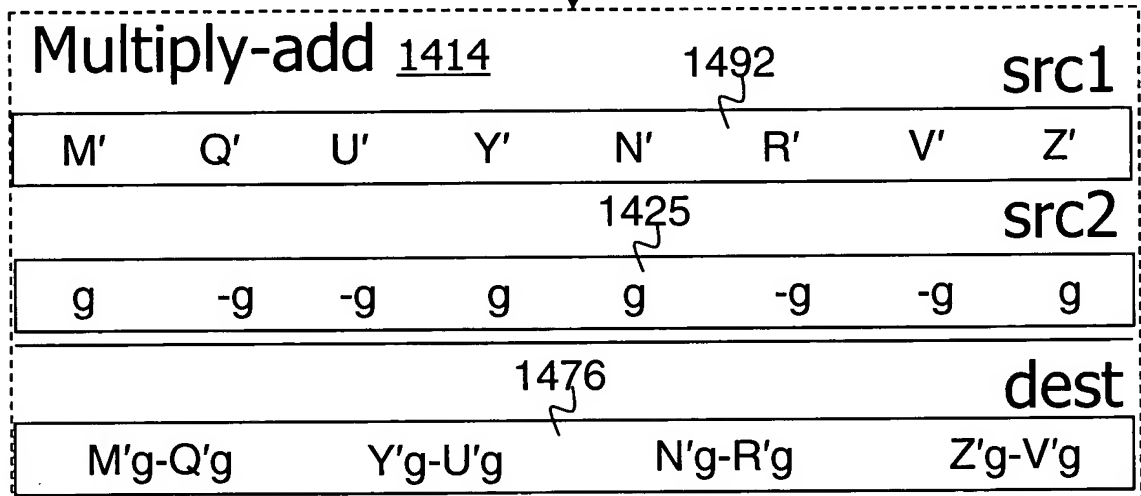
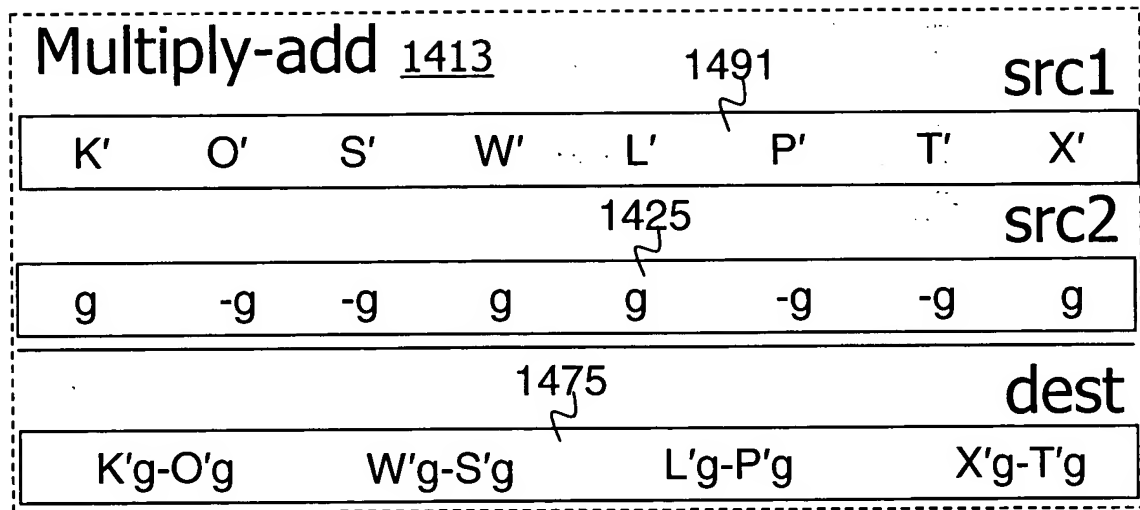
To 1410

FIG. 14c



To 1413

FIG. 14d



To 1416

FIG. 14e

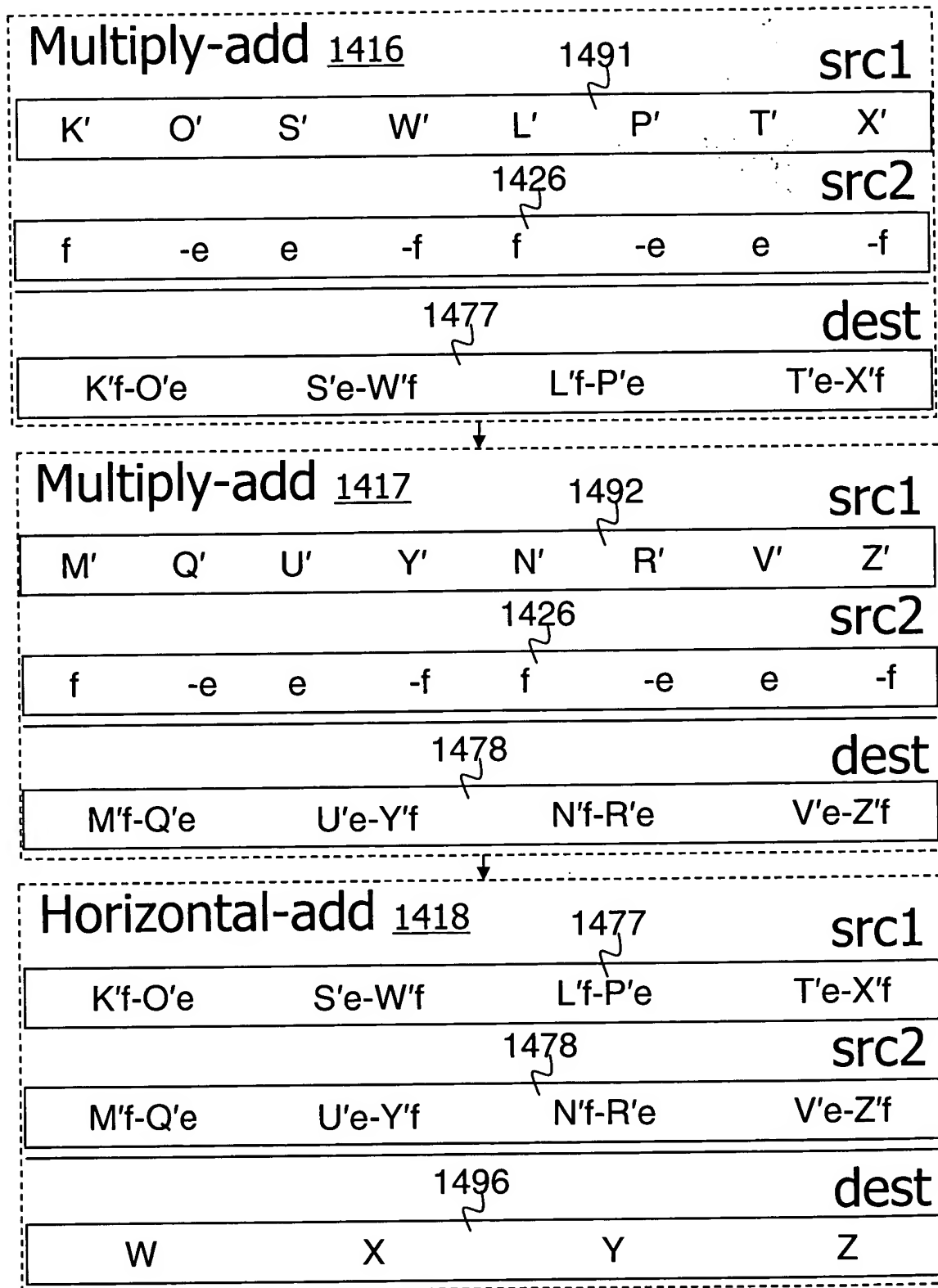


FIG. 14f

FIG. 15a

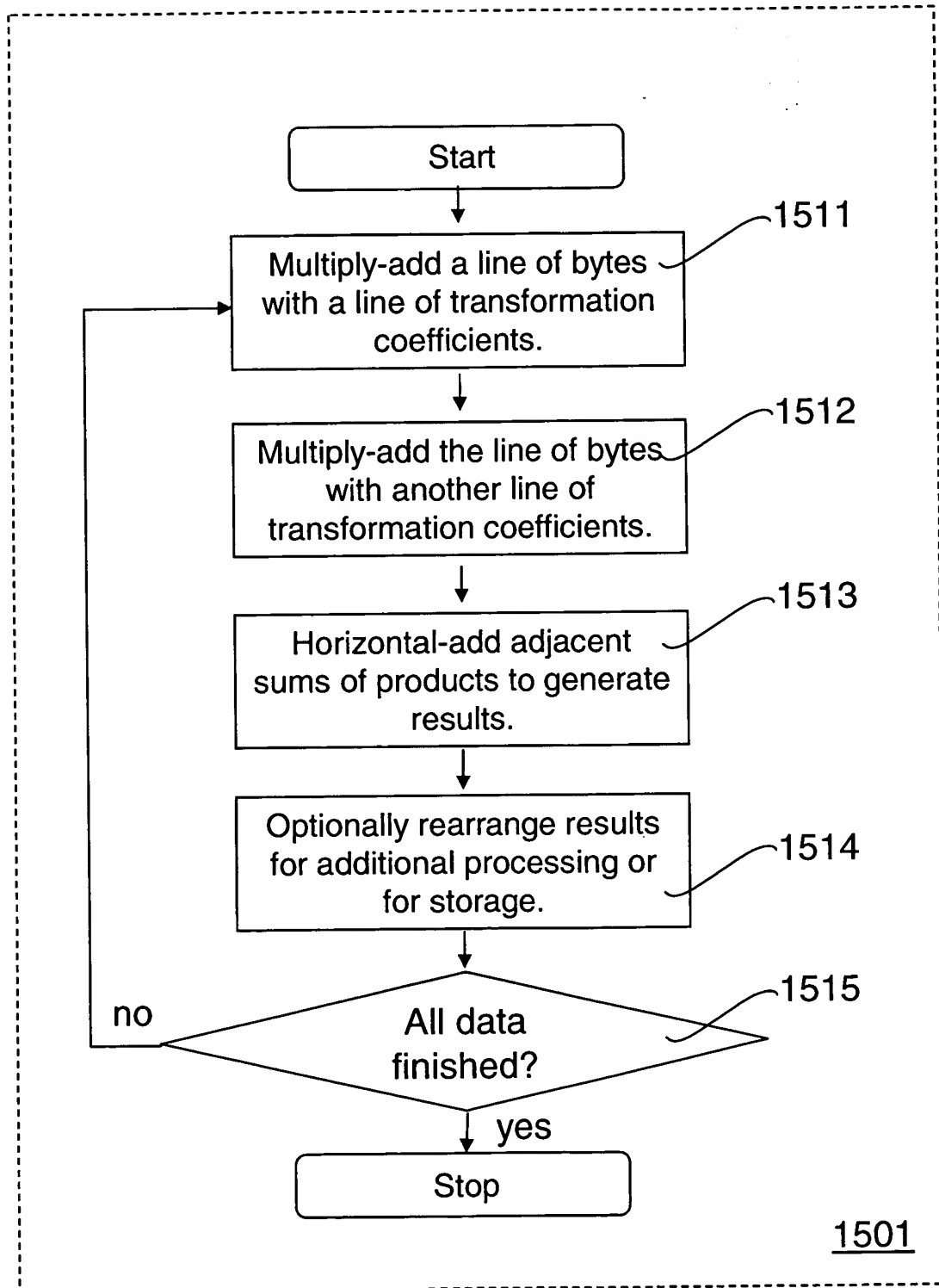


FIG. 15b

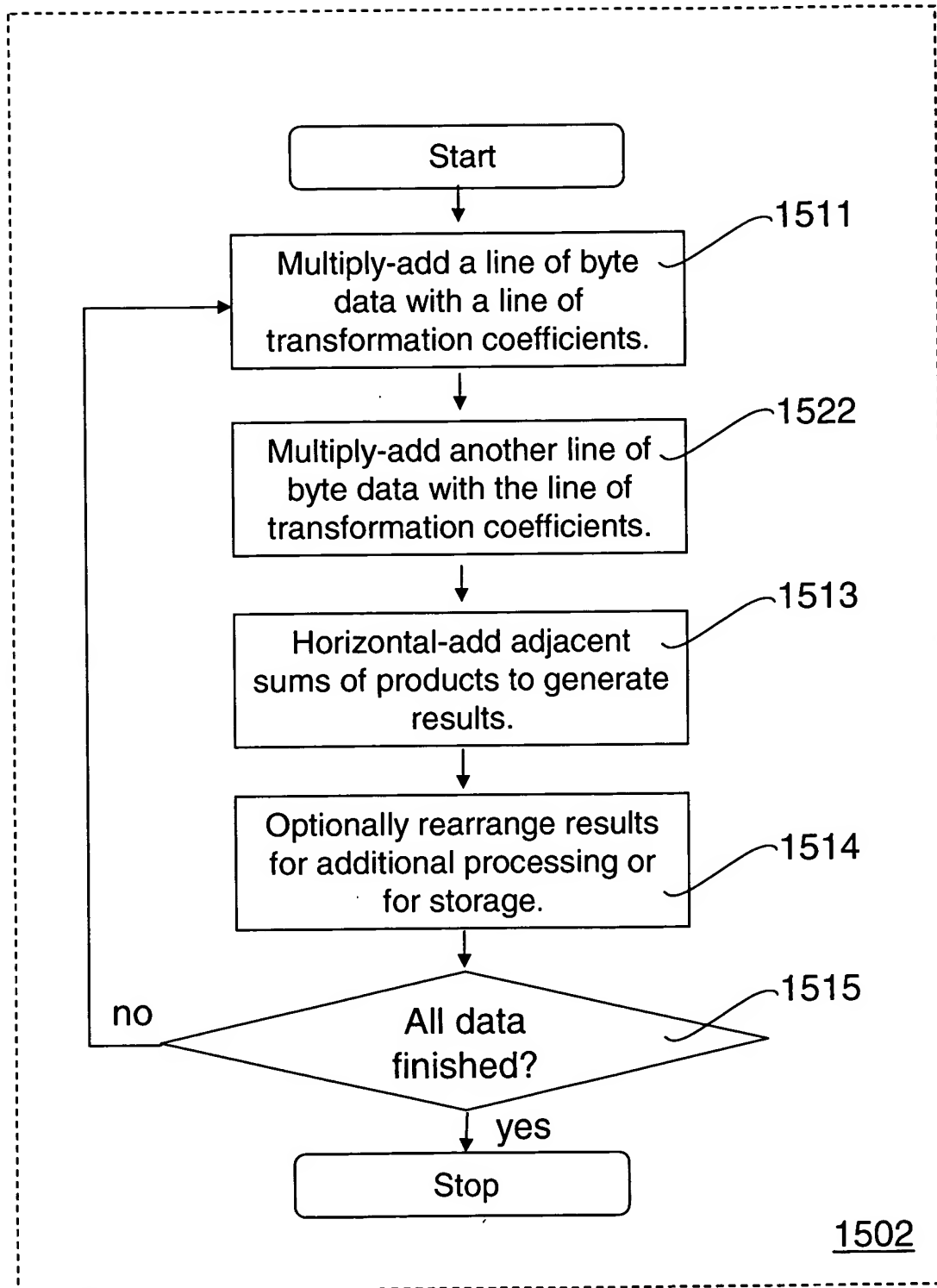


FIG. 15c

